Open Source Used In Cisco Vision Dynamic Signage Director 6.4

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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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1.6 lz4 1.7.5-3.el7

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1.10 jline 1.0

1.11 web-services 2.1
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1.12 cxf-rt-management 2.5.9

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1.14 spring-web 4.3.29.RELEASE

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1.16 iputils 20160308-10.el7

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1.17 libxcursor 1.1.14-2.1.el7

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1.18 juli 6.0.29

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1.19 asm-tree 3.1
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1.20 libproxy 0.4.11-8.el7
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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.

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* /opt/ws_local/PERMITS_SQL/1025582772_1594434542.29/0/mule-module-schedulers-3-6-1-sources-jar/org/mule/modules/schedulers/cron/CronJob.java
* /opt/ws_local/PERMITS_SQL/1025582772_1594434542.29/0/mule-module-schedulers-3-6-1-sources-jar/org/mule/modules/schedulers/cron/CronSchedulerFactory.java
* /opt/ws_local/PERMITS_SQL/1025582772_1594434542.29/0/mule-module-schedulers-3-6-1-sources-jar/org/mule/modules/schedulers/cron/CronScheduler.java
* /opt/ws_local/PERMITS_SQL/1025582772_1594434542.29/0/mule-module-schedulers-3-6-1-sources-jar/org/mule/modules/schedulers/config/SchedulersNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1025582772_1594434542.29/0/mule-module-schedulers-3-6-1-sources-jar/org/mule/modules/schedulers/i18n/SchedulerMessages.java

1.39 jersey-guava 2.11

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  jar/jersey/repackaged/com/google/common/base/Optional.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/FutureFallback.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/cache/package-info.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/math/LongMath.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/reflect/Types.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/cache/AbstractLoadingCache.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.
*/

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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/Striped.java

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jar/jersey/repackaged/com/google/common/collections/ForwardingMultimap.java
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jar/jersey/repackaged/com/google/common/base/Objects.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
jar/jersey/repackaged/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
jar/jersey/repackaged/com/google/common/collections/MapConstraints.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
jar/jersey/repackaged/com/google/common/collections/MapDifference.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
jar/jersey/repackaged/com/google/common/base/Charsets.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/SingletonImmutableSet.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/base/FinalizableSoftReference.java
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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/package-info.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSet.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/eventbus/HandlerFindingStrategy.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/ExplicitOrdering.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/TreeMultimap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/Throwables.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/EmptyImmutableList.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/MultiInputStream.java
jar/jersey/repackaged/com/google/common/collection/Multimap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/Files.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/ImmutableIterator.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/base/package-info.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/MapElements.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/HashMultiset.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/ReverseOrdering.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/base/Functions.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/Closeables.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/io/OutputSupplier.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/Multisets.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/eventbus/AnnotatedHandlerFinder.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1.jar/jersey/repackaged/com/google/common/collection/ForwardingObject.java
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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collection/ComputingConcurrentHashMap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collection/SortedLists.java

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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
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  jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
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  jar/jersey/repackaged/com/google/common/primitives/package-info.java
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  jar/jersey/repackaged/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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  jar/jersey/repackaged/com/google/common/util/concurrent/ListeningExecutorService.java
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  jar/jersey/repackaged/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/annotations/package-info.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/Monitor.java

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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/net/package-info.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/base/Ascii.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collection/DiscreteDomains.java
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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-
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* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1158685432_1619822715.94/0/jersey-guava-2-11-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractRangeSet.java
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* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/jcr/util/Base64.java
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* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/predicate/NodeTypePredicate.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/uuid/Constants.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/name/UnknownPrefixException.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/value/BooleanValue.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/xml/SerializingContentHandler.java
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jar/org/apache/jackrabbit/name/SessionNamespaceResolver.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/iterator/EventListenerIteratorAdapter.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/repository/RepositoryFactory.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/iterator/NodeTypeIteratorAdapter.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/BaseException.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/name/NamePathResolver.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/repository/JNDIRepository.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/predicate/DepthPredicate.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/packaging/ContentPackage.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/util/Name/NameValueMapping.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/value/ReferenceValue.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/util/IteratorHelper.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/commons/AbstractNode.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/util/ChildrenCollectorFilter.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/value/NameValue.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
jar/org/apache/jackrabbit/util/TransientFileFactory.java
* /opt/cola/permits/1158686072_1619822366.22/jackrabbit-jcr-commons-1-4-2-sources-1-
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1.47 commons-dbutils 1.2

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* /opt/cola/permits/1003537166_1607460448.88/0/wro4j-core-1-7-7-sources-1-jar/ro/isdc/wro/config/factory/PropertyWroConfigurationFactory.java
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* conditions as the jsmin.c on which it is based.
* <p>
* http://www.crockford.com/javascript/jsmin.html
* *
* @author Alex Objelean
@created Created on Dec 5, 2008
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* /opt/cola/permits/1003537166_1607460448.88/0/wro4j-core-1-7-7-sources-1-jar/ro/isdc/wro/model/resource/processor/support/CssColors.java
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/**
 * Encodes and decodes to and from Base64 notation.
 * 
 * 
 * Example:
 * 
 * <code>String encoded = Base64.encode( myByteArray );</code> <br />
 * <code>byte[] myByteArray = Base64.decode( encoded );</code>
 * 
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the
 * encoder. In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to
 * indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using
 * the URL-safe and Ordered dialects.
 */
* <p>
* Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations
* should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier
* versions broke lines by default.
* </p>
* 
* <p>
* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:
* </p>
* 
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
* <p>
* to compress the data before encoding it and then making the output have newline characters.
* </p>
* 
* <p>
* Also...
* </p>
* 
* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>
* </p>
* 
* I am placing this code in the Public Domain. Do with it as you will. This software comes with no guarantees or
* warranties but with plenty of well-wishing instead! Please visit <a
* href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute
* improvements.
* </p>
* 
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.5
*/

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* /opt/cola/permits/1003537166_1607460448.88/0/wro4j-core-1-7-7-sources-1-jar/ro/fsdc/wro/model/resource/processor/support/JawrCssMinifier.java

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 * CSS Compressor
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*
* This code is a port of Isaac Schlueter's cssmin utility.
*/

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  jar/isdc/wro/model/resource/processor/support/CssCompressor.java

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1.53 pytz 2016.10

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1.54 libxi 1.7.9-1.el7

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* /opt/cola/permits/1003536870_1607460527.12/0/drools-compiler-5-0-1-sources-jar/org/drools/guvnor/server/util/SuggestionCompletionEngineBuilder.java
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* /opt/cola/permits/1003536870_1607460527.12/0/drools-compiler-5-0-1-sources-jar/org/drools/rule/builder/dialect/mvel/MVELAnalysisResult.java
* /opt/cola/permits/1003536870_1607460527.12/0/drools-compiler-5-0-1-sources-jar/org/drools/rule/builder/dialect/java/parser/JavaLocalDeclarationDescr.java

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  jar/org/drools/lang/descr/PatternDestinationDescr.java
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1.61 make 3.82-24.el7

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/ScopeBindingProcessor.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/spi/ProviderLookup.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/spi/Elements.java
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* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/spi/ConvertedConstantBinding.java
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* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/InheritingState.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/AbstractProcessor.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/assistedinject/FactoryProvider2.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/internal/FailableCache.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/FactoryProxy.java
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* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/spi/BindingScopingVisitor.java
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* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/TypeConverterBindingProcessor.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/PrivateElementProcessor.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/internal/UniqueAnnotations.java
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* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/apache/lucene/search/postingshighlight/CustomPassageFormatter.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/apache/lucene/search/postingshighlight/.Snippet.java
* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/apache/lucene/search/postingshighlight/XPostingsHighlighter.java

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* /opt/ws_local/PERMITS_SQL/1070441144_1594713724.58/0/elasticsearch-1-5-2-sources-3-jar/org/elasticsearch/common/inject/name/package-info.java
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*/
/**
 * Encodes and decodes to and from Base64 notation.
 */
<p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
<p>Example:</p>
<pre>
String encoded = Base64.encode( myByteArray );
<br/>
byte[] myByteArray = Base64.decode( encoded );
</pre>
<p>The &lt;tt&gt;options&lt;/tt&gt; parameter, which appears in a few places, is used to pass
several pieces of information to the encoder. In the "higher level" methods such as
encodeBytes( bytes, options ) the options parameter can be used to indicate such
things as first gzipping the bytes before encoding them, not inserting linefeeds,
and encoding using the URL-safe and Ordered dialects.</p>
<p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,
Section 2.1, implementations should not add line feeds unless explicitly told
to do so. I've got Base64 set to this behavior now, although earlier versions
broke lines by default.</p>
<p>The constants defined in Base64 can be OR-ed together to combine options, so you
might make a call like this:</p>
<pre>
String encoded = Base64.encodeBytes( myBytes, Base64.GZIP | Base64.DO_BREAK_LINES );
</pre>
<p>Also...</p>
<pre>
String encoded = Base64.encodeBytes( crazyString.getBytes() );
</pre>
<p>Change Log:</p>
<ul>
</ul>
* v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.</li>
* v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.</li>
* v2.3.5 - Fixed bug in `@link #encodeFromFile` where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.</li>
* v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the `@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)` method.</li>
* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.</li>
* v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the `@link #encodeBytesToBytes(byte[])` family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).</li>
* v2.3.1 - Added `@link #encodeBytesToBytes(byte[], int, int, int)` and some similar helper methods to be more efficient with memory by not returning a String but just a byte array.</li>
* v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or something similar. Here are some changes that may affect you:</li>
* ul>
    * Does not break lines, by default. This is to keep in compliance with RFC3548.</li>
    * Throws exceptions instead of returning null values. Because some operations (especially those that may permit the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever there's an error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done this way to begin with.</li>
    * Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions as needed</li>
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.<br>
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </ol>
* </li>
* <li>The default is RFC3548 format.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* </li>
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>
* for contributing the new Base64 dialects.</li>
* </li>
* </p>
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* v2.0 - I got rid of methods that used booleans to set options.<br>
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>.</li>
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).</li>
* v1.5 - Output stream pases on flush() command but doesn't do anything itself.<br>
* This helps when using GZIP streams.</li>
* Added the ability to GZip-compress objects before encoding them.</li>
* v1.4 - Added helper methods to read/write files.</li>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
* </p>
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* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
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http://www.jcraft.com/jzlib/LICENSE.txt

1.78 binutils 2.27-43.base.el7_8.1
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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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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the *Lesser* General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *Less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is *Less* protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
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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
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.)

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@heading END OF TERMS AND CONDITIONS
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@page
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+++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbdf) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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

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

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1.84 xstream 1.4.11.1

1.85 libnotify 0.7.7-1.el7

1.85.1 Available under license:

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1.93 pango 1.36.8-2.el7

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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:

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

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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* /opt/ws_local/PERMITS_SQL/1076874072_1596713220.91/0/netty-buffer-4-0-20-final-sources-1-
  jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1076874072_1596713220.91/0/netty-buffer-4-0-20-final-sources-1-
  jar/io/netty/buffer/EmptyByteBuf.java
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  jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1076874072_1596713220.91/0/netty-buffer-4-0-20-final-sources-1-
  jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1076874072_1596713220.91/0/netty-buffer-4-0-20-final-sources-1-
  jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1076874072_1596713220.91/0/netty-buffer-4-0-20-final-sources-1-
  jar/io/netty/buffer/ByteBufHolder.java

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* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/types/TimeComparison.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/util/ScriptRunnerCreator.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/util/KeepAliveOutputStream.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/filters/ConcatFilter.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/util/regexp/RegexpMatcherFactory.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/util/regexp/RegexpFactory.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/ExitStatusException.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/taskdefs/MacroDef.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/dispatch/DispatchTask.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1.jar/org/apache/tools/ant/taskdefs/Replace.java
Open Source Used In Cisco Vision Dynamic Signage Director 6.4

* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/util/facade/ImplementationSpecificArgument.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/Parameterizable.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/StreamPumper.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/condition/Socket.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/condition/IsFileSelected.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/selectors/PresentSelector.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/WaitFor.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/resources/selectors/InstanceOf.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/BuildNumber.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/resources/selectors/ResourceSelector.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/resources/Files.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/WaitFor.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/resources/selectors/InstanceOf.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/resources/Files.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/filters/FilterMapper.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/Touch.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/condition/Condition.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/condition/Condition.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/Retryable.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/RetryHandler.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/WaitFor.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/BuildNumber.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/condition/IsFileSelected.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/StreamPumper.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/RetryHandler.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/StreamPumper.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/Retryable.java
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  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/util/ContainerMapper.java
  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/ExecuteStreamHandler.java
  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/FileSet.java
  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/Quantifier.java
  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/selectors/DepthSelector.java
  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/spi/Service.java
  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/util/ReflectWrapper.java
  * /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/util/regexp/RegexpUtil.java

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 */

/**
 * A class to help send SMTP email.
 * This class is an improvement on the sun.net.smtp.SmtpClient class
 * found in the JDK. This version has extra functionality, and can be used
 * with JVMs that did not extend from the JDK. It's not as robust as
 * the JavaMail Standard Extension classes, but it's easier to use and
 * easier to install, and has an Open Source license.
 *
 * It can be used like this:
 *
 * String mailhost = "localhost"; // or another mail host
 * String from = "Mail Message Servlet &lt;MailMessage@server.com&gt;";
 * String to = "to@you.com";
 * String cc1 = "cc1@you.com";
 * String cc2 = "cc2@you.com";
 * String bcc = "bcc@you.com";
 * &nbsp;
 * MailMessage msg = new MailMessage(mailhost);
 * msg.setPort(25);
 * msg.from(from);
 * msg.to(to);
 * msg.cc(cc1);
 * msg.cc(cc2);
 * msg.bcc(bcc);
 * msg.setSubject("Test subject");
 * PrintStream out = msg.getPrintStream();
 * &nbsp;
 * Enumeration enum = req.getParameterNames();
 * while (enum.hasMoreElements()) {
* String name = (String)enum.nextElement();
* String value = req.getParameter(name);
* out.println(name + " = " + value);
* }
* &nbsp;
* msg.sendAndClose();
* </pre></blockquote>
* </p>
* Be sure to set the from address, then set the recepient
* addresses, then set the subject and other headers, then get the
* PrintStream, then write the message, and finally send and close.
* The class does minimal error checking internally; it counts on the mail
* host to complain if there's any malformed input or out of order
* execution.
* </p>
* An attachment mechanism based on RFC 1521 could be implemented on top of
* this class. In the meanwhile, JavaMail is the best solution for sending
* email with attachments.
* </p>
* Still to do:
* </ul>
* </li>Figure out how to close the connection in case of error
* </li>
* </ul>
* @version 1.1, 2000/03/19, added angle brackets to address, helps some servers
* version 1.0, 1999/12/29
*/

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* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/mail/MailMessage.java
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* limitations under the License.
This class implements a security manager meant for usage by tasks that run inside the Ant VM. An examples are the Java Task and JUnitTask.

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It is not permissible to add permissions (either granted or revoked) while the Security Manager is active (after calling setSecurityManager() but before calling restoreSecurityManager()).

* @since Ant 1.6

1.103 slf4j 1.7.7

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1.104 mule-pattern-core 3.6.1

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* /opt/ws_local/PERMITS_SQL/1025582767_1594527168.07/0/mule-pattern-core-3-6-1-sources-1-
  jar/org/mule/transport/http/config/spring/factories/HttpProxyFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582767_1594527168.07/0/mule-pattern-core-3-6-1-sources-1-
  jar/org/mule/pattern/core/config/CorePatternNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1025582767_1594527168.07/0/mule-pattern-core-3-6-1-sources-1-
  jar/org/mule/transport/http/config/spring/parsers/specific/HttpProxyDefinitionParser.java

1.105 xmlschema 2.0.3

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1.106 myfaces 2.2.6

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jar/javassist/bytecode/annotation/BooleanMemberValue.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Handler.java
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License Mixing with apps, libcurl and Third Party Libraries

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

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

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

Libcurl http://curl.haxx.se/docs/copyright.html

    Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

    (May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.
GnuTLS  http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl  http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS     http://www.mozilla.org/projects/security/pki/nss/

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axTLS   http://axtls.sourceforge.net/

(Should be used for SSL/TLS support) Uses a Modified BSD-style license.

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

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

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

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

krb4

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

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.
Heimdal http://www.pdc.kth.se/heimdal/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

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

libssh2 http://www.libssh2.org/

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

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL.
1.125 glib-networking 2.56.1-1.el7

1.125.1 Available under license:

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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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(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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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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rather than copying library functions into the executable, and (2)
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Preamble

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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c) You must cause the whole of the work to be licensed at no
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table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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entire whole, and thus to each and every part regardless of who wrote
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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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.

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

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

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

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

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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We call this license the `Lesser` General Public License because it does `Less` to protect the user's freedom than the ordinary General Public License. It also provides other free software developers `Less` of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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@end page
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**1.134 apr 1.4.8-5.el7**

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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

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

 * cvt - IEEE floating point formatting routines.
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1.135 milyn-smooks-calc 1.4

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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-- Nathan
=20
------------------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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> > -mike
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From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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What I am hearing so far is that LGPL makes sense, since it can be
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Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
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I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
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yes, go for it. thanks++

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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
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> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 11cOcX-0004Qt-6L
  for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11da0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11da0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floated
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

- a

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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Nathan Neulinger
EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
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From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
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   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 11cOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
1.145 spring-jdbc 3.2.10.RELEASE
1.145.1 Available under license:

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

/*
 * Copyright 2002-2013 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/**
 **
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large OBjects.
 * Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
 * {@link OracleLobHandler}; most other databases should be able to work
 * with the provided {@link DefaultLobHandler}.
 *
 * <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
 * LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
 * LobCreators are typically instantiated for each statement execution or for
 * each transaction; they are not thread-safe because they might track
 * allocated database resources in order to free them after execution.
 *
 * <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},
 * which by default delegates to JDBC's direct accessor methods, avoiding the
 * {@code java.sql.Blob} and {@code java.sql.Clob} API completely.
 * {@link DefaultLobHandler} can also be configured to access LOBs using
 * {@code PreparedStatement.setBlob/setClob} (e.g. for PostgreSQL), through
 * setting the {@link DefaultLobHandler#setWrapAsLob "wrapAsLob"} property.
 *
 * <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
 * proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need to use
 * {@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types
 * of access. The Oracle 10g+ JDBC driver will work with {@link DefaultLobHandler}
 * as well, with some limitations in terms of LOB sizes depending on DBMS setup;
 * as of Oracle 11g (or actually, using the 11g driver even against older databases),
there should be no need to use [@link OracleLobHandler] at all anymore.
*<p>Of course, you need to declare different field types for each database.
*In Oracle, any binary content needs to go into a BLOB, and all character content
*beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
*CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
*portability, use a LobHandler for fields that might typically require LOBs on
*some database because of the field size (take Oracle's numbers as a guideline).
*
*<p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
*<ul>
*<li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use [@link DefaultLobHandler],
*potentially with [@code streamAsLob=true] if your database driver requires that
*hint when populating a LOB field. Fall back to [@code createTemporaryLob=true]
*if you happen to run into LOB size limitations with your (Oracle) database setup.
*<li><b>Oracle 10g driver:</b> Use [@link DefaultLobHandler] with standard setup.
*On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
*DefaultLobHandler should work with standard setup out of the box. Alternatively,
*consider using the proprietary [@link OracleLobHandler] (see below).
*<li><b>Oracle 9i driver:</b> Use [@link OracleLobHandler] with a connection-pool-specific
*@[link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor]
*<li><b>PostgreSQL:</b> Configure [@link DefaultLobHandler] with [@code wrapAsLob=true],
*and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
*<li>For all other database drivers (and for non-LOB fields that might potentially
*turn into LOBs on some databases): Simply use a plain [@link DefaultLobHandler].
*<ul>
*<p>@author Juergen Hoeller
*@since 23.12.2003
*@see DefaultLobHandler
*@see OracleLobHandler
*@see java.sql.ResultSet#getBlob
*@see java.sql.ResultSet#getClob
*@see java.sql.ResultSet#getBytes
*@see java.sql.ResultSet#getBinaryStream
*@see java.sql.ResultSet#getString
*@see java.sql.ResultSet#getAsciStream
*@see java.sql.ResultSet#getAttribute
*/

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* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/object/StoredProcedure.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/JdbcOperations.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java

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  jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
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  jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMaxValueIncrementer.java
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  jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
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  jar/org/springframework/jdbc/core/BatchUpdateUtils.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
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  jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
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  jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
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  jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java

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* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
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* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
  jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
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  jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
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* limitations under the License.
*/
/**
* {@link LobHandler} implementation for Oracle databases. Uses proprietary API
* to create {@code oracle.sql.BLOB} and {@code oracle.sql.CLOB}
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
*
* <p>While most databases are able to work with {@link DefaultLobHandler},
* Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
* Blob/Clob instances created via its own proprietary BLOB/CLOB API,
* and additionally doesn't accept large streams for PreparedStatement's
* corresponding setter methods. Therefore, you need to use a strategy like
* this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
* (which still supports access to Oracle 9i databases).
*
* <p><b>NOTE: As of Oracle 10.2, {@link DefaultLobHandler} should work equally
* well out of the box. On Oracle 11g, JDBC 4.0 based options such as
* {@link DefaultLobHandler#setStreamAsLob} and {@link DefaultLobHandler#setCreateTemporaryLob}
* are available as well, rendering this proprietary OracleLobHandler obsolete.</b>
* Also, consider upgrading to a new driver even when accessing an older database.
* See the {@link LobHandler} interface javadoc for a summary of recommendations.
*
* <p>Needs to work on a native JDBC Connection, to be able to cast it to
* {@code oracle.jdbc.OracleConnection}. If you pass in Connections from a
* connection pool (the usual case in a Java EE environment), you need to set an
* appropriate {@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
*
* Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
*
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of [DefaultLobHandler](#) for the Oracle 10g driver and higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* [DefaultLobHandler#setCreateTemporaryLob](#) is the direct equivalent of this OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

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*/
/**
* Implement this interface when parameters need to be customized based
on the connection. We might need to do this to make use of proprietary
features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never [ @code null])
*/

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* limitations under the License.
*/
/**
/*
* Strategy interface for translating between [ @link SQLException SQLExceptions]
* and Spring's data access strategy-agnostic [ @link DataAccessException] hierarchy.
*
* <p>Implementations can be generic (for example, using
* [ @link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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*/
/**
** Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
** Will not need to do anything if using PreparedStatement’s standard methods,
** but might be necessary to free database resources if using proprietary means.
** <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
** been executed or the affected O/R mapping sessions have been flushed.
** Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

Found in path(s):
*/opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-
jar/org/springframework/jdbc/support/lob/LobCreator.java
No license file was found, but licenses were detected in source scan.

/**
** The classes in this package make JDBC easier to use and
** reduce the likelihood of common errors. In particular, they:
** <ul>
** <li>Simplify error handling, avoiding the need for try/catch/finally
** blocks in application code.
** <li>Present exceptions to application code in a generic hierarchy of
** unchecked exceptions, enabling applications to catch data access
** exceptions without being dependent on JDBC, and to ignore fatal
** exceptions there is no value in catching.
** <li>Allow the implementation of error handling to be modified
** to target different RDBMSes without introducing proprietary
** dependencies into application code.
** </ul>
**
** This package and related packages are discussed in Chapter 9 of
** <a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/"">Expert One-On-One J2EE Design and
** Development</a>
** by Rod Johnson (Wrox, 2002).
*/

Found in path(s):
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Found in path(s):
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2.jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2.jar/org/springframework/jdbc/core/ParameterDisposer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2.jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2.jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java

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 * limitations under the License.
 */

Found in path(s):
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2.jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2.jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
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 * limitations under the License.
 */

Found in path(s):
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/EmbeddedDatabase.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/DataSourceFactory.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/ConnectionProperties.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/OutputStreamFactory.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
* /opt/cola/permits/1158684580_1619822600.16/0/spring-jdbc-3-2-10-release-sources-2-jar/org/springframework/jdbc/datasource/DataSourceFactory.java
1.146.1 Available under license:

# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/jtalos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-ta>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytt@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response.

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.
* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix \``util.selectors._fileobj_to_fd`` to accept \``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to \``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add \``HTTPResponse.geturl`` method to provide \``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.
* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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SOFTWARE.
1.147 coverage 3.6b3

1.147.1 Available under license:

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Metadata-Version: 1.1
Name: coverage
Version: 3.6b3
Summary: Code coverage measurement for Python
Home-page: http://nedbatchelder.com/code/coverage/3.6b3
Author: Ned Batchelder and others
Author-email: ned@nedbatchelder.com
License: BSD
Description: Coverage.py measures code coverage, typically during test execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.

Documentation is at `nedbatchelder.com <http://nedbatchelder.com/code/coverage/3.6b3>`_. Code repository and issue tracker are at `bitbucket.org <http://bitbucket.org/ned/coveragepy>`_.

New in 3.6: ``--fail-under```, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files can be reported.

New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!
Keywords: code coverage testing
Platform: UNKNOWN
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Quality Assurance
Classifier: Topic :: Software Development :: Testing
Classifier: Development Status :: 4 - Beta

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage.egg-info/PKG-
INFO
*/
*/
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/PKG-INFO
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* jQuery JavaScript Library v1.4.3
* http://jquery.com/
*
* Copyright 2010, John Resig
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* http://jquery.org/license
*
* Includes Sizzle.js
* http://sizzlejs.com/
* Copyright 2010, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
*
* Date: Thu Oct 14 23:10:06 2010 -0400
*/

Found in path(s):
*/
*/
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery-1.4.3.min.js
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*/
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/__init__.py
No license file was found, but licenses were detected in source scan.

License :: OSI Approved :: BSD License

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*/
*/
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/setup.py
No license file was found, but licenses were detected in source scan.

/* Copyright (c) 2010
* @author Laurence Wheway
* Dual licensed under the MIT (http://www.opensource.org/licenses/mit-license.php)
* and GPL (http://www.opensource.org/licenses/gpl-license.php) licenses.
* @version 1.2.0
*/

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery.isonscreen.js
No license file was found, but licenses were detected in source scan.

/*
* jQuery Hotkeys Plugin
* Copyright 2010, John Resig
* Dual licensed under the MIT or GPL Version 2 licenses.
* Based upon the plugin by Tzury Bar Yochay:
* http://github.com/tzuryby/hotkeys
* Original idea by:
*/

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery.hotkeys.js
No license file was found, but licenses were detected in source scan.

/**
* QUnit - A JavaScript Unit Testing Framework
* http://docs.jquery.com/QUnit
* Copyright (c) 2011 John Resig, Jörn Zaeffrer
* Dual licensed under the MIT (MIT-LICENSE.txt)
* or GPL (GPL-LICENSE.txt) licenses.
*/

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.css
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/**
* QUnit - A JavaScript Unit Testing Framework
* http://docs.jquery.com/QUnit
* Copyright (c) 2011 John Resig, Jörn Zaeffrer
* Dual licensed under the MIT (MIT-LICENSE.txt)
* or GPL (GPL-LICENSE.txt) licenses.
*/
/**
* jsDump
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
* Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
* @author Ariel Flesler
* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
*/
/*
* Javascript Diff Algorithm
* By John Resig (http://ejohn.org/)
* Modified by Chu Alan "sprite"
*
* Released under the MIT license.
*
* More Info:
* http://ejohn.org/projects/javascript-diff-algorithm/
*
* Usage: QUnit.diff(expected, actual)
*
* QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox <del>jumped </del><ins>jumps </ins> over"
*/

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.js
No license file was found, but licenses were detected in source scan.

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* jQuery Templates Plugin 1.0.0pre
* http://github.com/jquery/jquery-tmpl
* Requires jQuery 1.4.2
*
* Copyright Software Freedom Conservancy, Inc.
* Dual licensed under the MIT or GPL Version 2 licenses.
* http://jquery.org/license
*/

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* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/jquery.tmpl.min.js
1.148 yum-langpacks 0.4.2

1.148.1 Available under license:

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1.155 jnr-posix 2.4.0

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1.157 mule-module-boot 3.6.1

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// which is usually something like a JDK-vendor proprietary AppClassLoader
// get a Method ref from the normal class, but invoke on a proprietary parent

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025582821_1594445372.34/0/mule-module-boot-3-6-1-sources-
jar/org/mule/module/boot/MuleBootstrapUtils.java

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jar/org/mule/module/boot/DefaultMuleClassPathConfig.java
* /opt/ws_local/PERMITS_SQL/1025582821_1594445372.34/0/mule-module-boot-3-6-1-sources-
jar/org/mule/util/JarUtils.java
* /opt/ws_local/PERMITS_SQL/1025582821_1594445372.34/0/mule-module-boot-3-6-1-sources-
jar/org/mule/module/boot/MuleBootstrap.java
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1.160 gettext 0.18.2.1-4.el7

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1.162 binutils 2.23.52

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++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at Intellicorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-cof bfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).
Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

   Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively
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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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this Lesser General Public License (also called "this License").
each licensee is addressed as "you".

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.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
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you conspicuously and appropriately publish on each copy an
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all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
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You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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

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restrictions of other proprietary libraries that do not normally
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use both them and the Library together in an executable that you
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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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.166 plexus-interpolation 1.0

1.167 ognl 2.7.3
No license file was found, but licenses were detected in source scan.

/*@bgen(jjtree) Generated By:JJTree: Do not edit this line. src/java/ognl/ognl.jj */
/*@egen**/--------------------------------------------------------------------------
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// THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
// DAMAGE.
//-------------------------------------------------------------------------------
/*
 * This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
 * language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
 * Blanshard then made up the new name and reimplemented it using ANTLR, refining and
 * polishing the language a bit on the way. Drew maintained the system for a couple of
 * years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
 * dependency on ANTLR.
 *
 * See package.html for a description of the language.
 */

options {
  // Parser options
LOOKAHEAD = 1;
STATIC = false;
JAVA_UNICODE_ESCAPE = true;
UNICODE_INPUT = true;

PARSER_BEGIN(OgnlParser)

package ognl;

import java.math.*;

/**
 * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
 */
public class OgnlParser/*@bgen(jjtree)*/implements OgnlParserTreeConstants/*@egen*/
{
   /*@bgen(jjtree)*/
    protected JJTOgnlParserState jjtree = new JJTOgnlParserState();
    /**<*/
    protected JJTOgnlParserState jjtree = new JJTOgnlParserState();
    /**<*/
    public class OgnlParser/*@bgen(jjtree)*/@implements OgnlParserTreeConstants/*@egen*/
    {/**<*/
        protected JJTOgnlParserState jjtree = new JJTOgnlParserState();
        /**<*/
    }

PARSER_END(OgnlParser)

/**
 * This is the top-level construct of OGNL.
 */
Node topLevelExpression() : {}
{
    expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
    assignmentExpression() ( ","/*@bgen(jjtree) #Sequence( 2) */
    {<ASTSequence jjtn001 = new ASTSequence(JTSEQUENCE);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
try { /*@egen*/ assignmentExpression()/*@bgen(jjtree)*/ } catch (Throwable jje001) {
    if (jje001) {
        jje.clearNodeScope(jjtn001);
        jje001 = false;
    } else {
        jje.popNode();
    }
    if (jje001 instanceof RuntimeException) {
        throw (RuntimeException)jje001;
    }
    if (jje001 instanceof ParseException) {
        throw (ParseException)jje001;
    }
    throw (Error)jje001;
} finally {
    if (jje001) {
        jje.closeNodeScope(jjtn001, 2);
    }
}

//@egen*/
*/

// assignment expression (level 13)
void assignmentExpression() : {
{
    conditionalTestExpression() "="/*@bgen(jjtree) #Assign( 2) */
    
    ASTAssign jjtn001 = new ASTAssign(JTASSIGN);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
} try {
//@egen*/
assignmentExpression()/*@bgen(jjtree)*/ 
} catch (Throwable jje001) {
    if (jje001) {
        jje.clearNodeScope(jjtn001);
        jje001 = false;
    } else {
        jje.popNode();
    }
    if (jje001 instanceof RuntimeException) {
        throw (RuntimeException)jje001;
    }
    if (jje001 instanceof ParseException) {
        throw (ParseException)jje001;
    }
}
void conditionalTestExpression() : {}
{
    logicalOrExpression()
        [ "?" conditionalTestExpression() ":="/"
    {
        ASTTest jjtn001 = new ASTTest(JJTTEST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        conditionalTestExpression()
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 3);
        }
    }
}

// logical or (||) (level 11)
void logicalOrExpression() : {}
{
    logicalAndExpression() ("||" ":="/"
}
void logicalAndExpression() : {}
{
    inclusiveOrExpression() ("&&" | "and") /*@bgen(jjtree) #And( 2) */
    {
        ASTOr jjtn001 = new ASTOr(JJTOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/ logicalAndExpression() /*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
    /*@egen*/
}

// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
    inclusiveOrExpression() ("&&" | "and") /*@bgen(jjtree) #And( 2) */
    {
        ASTAnd jjtn001 = new ASTAnd(JJTAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/ inclusiveOrExpression() /*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
    /*@egen*/
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}  
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
} /*@egen*/

//@ injected

// bitwise or non-short-circuiting or (|) (level 9)

/**
 * @param jjtree
 */
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() ("|" | "bor")/*@bgen(jjtree) #BitOr( 2) */
    {
        ASTBitOr jjtn001 = new ASTBitOr(JJTBITOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/ exclusiveOrExpression()/*@bgen(jjtree)*/
        }
    catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
    /*@egen*/
} /*@egen*/
// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() ("^" | "xor")/*@bgen(jjtree) #Xor( 2) */
    {
        ASTXor jjtn001 = new ASTXor(JJTXOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        andExpression()/*@bgen(jjtree)/*
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjte001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,  2);
        }
    }
}/*@egen*/

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {}
{
    equalityExpression() ("&" | "band")/*@bgen(jjtree) #BitAnd( 2) */
    {
        ASTBitAnd jjtn001 = new ASTBitAnd(JJTBITAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        equalityExpression()/*@bgen(jjtree)/*
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjte001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,  2);
        }
    }
}*/@egen*/
if (jjte001) {
    jjtree.clearNodeScope(jjtn001);
    jjtc001 = false;
} else {
    jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
} throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
    relationalExpression()
    (
        ("==" | "eq")/*@bgen(jjtree) #Eq( 2) */
        {
            ASTEq jjtn001 = new ASTEq(JJTEQ);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
            relationalExpression()/*@bgen(jjtree)*/
            } catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
        }
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
| ("!=" | 'neq')/*@bgen(jjtree) #NotEq(2) */
{
    ASTNotEq jjtn002 = new ASTNotEq(JJTNOTEQ);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}

try {
    @*/egen*/ relationalExpression()/*@bgen(jjtree)*/

    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    }
    finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }

    @*/egen*/
    */*
}

//@ boolean relational expressions (level 5)
void relationalExpression() : {} {
    shiftExpression()
    ("<" | "lt")/*@bgen(jjtree) #Less(2) */
    {
        ASTLess jjtn001 = new ASTLess(JJTLESS);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/
shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
if (jjte001) {
  jjtree.clearNodeScope(jjtn001);
  jjtc001 = false;
} else {
  jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
  throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
  throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
if (jjtc001) {
  jjtree.closeNodeScope(jjtn001,  2);
}
}

/*@egen*/
|
(">" | "gt")/*@bgen(jjtree) #Greater( 2) */
{
ASTGreater jjtn002 = new ASTGreater(JJTGREATER);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/
shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
if (jjte002) {
  jjtree.clearNodeScope(jjtn002);
  jjtc002 = false;
} else {
  jjtree.popNode();
}
if (jjte002 instanceof RuntimeException) {
  throw (RuntimeException)jjte002;
}
if (jjte002 instanceof ParseException) {
  throw (ParseException)jjte002;
}
throw (Error)jjte002;
finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}

/*@egen*/
| 
("\<=" | "lte")/*@bgen(jjtree) #LessEq (2) */
 |
ASTLessEq jjtn003 = new ASTLessEq(JJTLESSEQ);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
    try {
    /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    }

catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

/*@egen*/
| 
("\>=" | "gte")/*@bgen(jjtree) #GreaterEq (2) */
 |
ASTGreaterEq jjtn004 = new ASTGreaterEq(JJTGREATEREQ);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
    try {
    /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    }

catch (Throwable jjte004) {
    if (jjtc004) {
        jjtree.clearNodeScope(jjtn004);
        jjtc004 = false;
if (jjte004 instanceof RuntimeException) {
    throw (RuntimeException)jjte004;
}
if (jjte004 instanceof ParseException) {
    throw (ParseException)jjte004;
}
throw (Error)jjte004;
} finally {
    if (jjtc004) {
        jjtree.closeNodeScope(jjtn004, 2);
    }
}

/*@egen*/
|
"in"/*@bgen(jjtree) #In( 2) */
{
    ASTIn jjtn005 = new ASTIn(JJTIN);
    boolean jjtc005 = true;
    jjtree.openNodeScope(jjtn005);
    try {
        shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte005) {
        if (jjtc005) {
            jjtree.clearNodeScope(jjtn005);
            jjtc005 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte005 instanceof RuntimeException) {
            throw (RuntimeException)jjte005;
        }
        if (jjte005 instanceof ParseException) {
            throw (ParseException)jjte005;
        }
        throw (Error)jjte005;
    } finally {
        if (jjtc005) {
            jjtree.closeNodeScope(jjtn005, 2);
        }
    }
}

/*@egen*/
|
"not" "in"/*@bgen(jjtree) #NotIn( 2) */
{
ASTNotIn jjtn006 = new ASTNotIn(JJTNOTIN);
boolean jjtc006 = true;
jjt.tree.openNodeScope(jjtn006);
}
try {
    @egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte006) {
        if (jjtc006) {
            jjt.tree.clearNodeScope(jjtn006);
            jjtc006 = false;
        } else {
            jjt.tree.popNode();
        }
        if (jjte006 instanceof RuntimeException) {
            throw (RuntimeException)jjte006;
        }
        if (jjte006 instanceof ParseException) {
            throw (ParseException)jjte006;
        }
        throw (Error)jjte006;
    } finally {
        if (jjtc006) {
            jjt.tree.closeNodeScope(jjtn006,  2);
        }
    }
    /*@egen*/
    )*
}*

// bit shift expressions (level 4)
void shiftExpression() : { }
{
    additiveExpression()
    ("<<" | "shl")/*@bgen(jjt.tree) #ShiftLeft( 2 )*/
    {
        ASTShiftLeft jjtn001 = new ASTShiftLeft(JJSHIFTLEFT);
        boolean jjtc001 = true;
        jjt.tree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/ additiveExpression()/*@bgen(jjt.tree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjt.tree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                // bit shift expressions (level 4)
                void shiftExpression() : { }
                {
                    additiveExpression()
                    ("<<" | "shl")/*@bgen(jjt.tree) #ShiftLeft( 2 )*/
                    {
                        ASTShiftLeft jjtn001 = new ASTShiftLeft(JJSHIFTLEFT);
                        boolean jjtc001 = true;
                        jjt.tree.openNodeScope(jjtn001);
                    }
                    try {
                        /*@egen*/ additiveExpression()/*@bgen(jjt.tree)*/
                        } catch (Throwable jjte001) {
                            if (jjtc001) {
                                jjt.tree.clearNodeScope(jjtn001);
                                jjtc001 = false;
                            } else {
jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/
| ("\[" | "shl")/*@bgen(jjtree) #ShiftLeft( 2) */
{
    ASTShiftLeft jjtn002 = new ASTShiftLeft(JJTSHIFTLEFT);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/
| ("\[" | "ushr")/*@bgen(jjtree) #UnsignedShiftRight( 2) */
{
    ASTUnsignedShiftRight jjtn003 = new ASTUnsignedShiftRight(JJTUNSIGNEDSHIFTRIGHT);
boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
}
try {
*/@egen*/ additiveExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

/*@egen*/

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    ("+"/*@bgen(jjtree) #Add( 2) */)
        { 
        ASTAdd jjtn001 = new ASTAdd(JJTADD);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
        }
    try {
*/@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
} else {
    throw (Error)jjte001;
}
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/

"-"/*@bgen(jjtree) Subtract(2) */
{
    ASTSubtract jjtn002 = new ASTSubtract(JJTSUBTRACT);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
    try {
    } catch (Throwable jjte002) {
    }
    if (jjte002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
}
if (jjte002 instanceof RuntimeException) {
    throw (RuntimeException)jjte002;
}
if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
} else {
    throw (Error)jjte002;
}
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}

//@egen*

*)*

// multiplication/division/remainder (level 2)
void multiplicativeExpression() {
    unaryExpression()
    
    "*/"/*@bgen(jjtree) #Multiply( 2) */
    
    ASTMultiply jjtn001 = new ASTMultiply(JJMULTIPLY);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        throw (RuntimeException)jjte001;
    } catch (Throwable jjte001) {
        if (jjt001) {
            jjtree.clearNodeScope(jjtn001);
            jjt001 = false;
        } else {  
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,  2);
        }
    }

    
    
    
    
    
    
    
    
    
    
    
    
} catch (Throwable jjte002) { 
    if (jjt002) {
        jjtree.clearNodeScope(jjtn002);
        jjt002 = false;
    } else { 
        jjtree.popNode(); 
    } 
}
if (jjte002 instanceof RuntimeException) {
    throw (RuntimeException)jjte002;
}
if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
} throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
}*/
}/*
| "%"/@bgen(jjtree) #Remainder( 2) */
{ ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
  boolean jjtc003 = true;
  jjtree.openNodeScope(jjtn003);
  try {
/* unaryExpression()*/
)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
}/* unary (level 1)

// unaryExpression()
void unaryExpression() { 
    StringBuffer sb;
Token t;
ASTInstanceof ionode;
} }
( 
"-"/*@bgen(jjtree) #Negate( 1) */
{
ASTNegate jjtn001 = new ASTNegate(JJTNEGATE);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
) catch (Throwable jjte001) {
if (jjtc001) {
jjtree.clearNodeScope(jjtn001);
jjtc001 = false;
} else {
jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
if (jjtc001) {
jjtree.closeNodeScope(jjtn001, 1);
}
}

"+" unaryExpression() // Just leave it there

"~"/*@bgen(jjtree) #BitNegate( 1) */
{
ASTBitNegate jjtn002 = new ASTBitNegate(JJTBITNEGATE);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
) catch (Throwable jjte002) {
if (jjtc002) {
jjtree.clearNodeScope(jjtn002);
jjtc002 = false;
}
"instanceof"
  t = <IDENT>/*@bgen(jjtree) #Instanceof( 1) */
  {
    ASTInstanceof jjtn004 = new ASTInstanceof(JJTINSTANCEOF);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
    try {
      @egen*///*@bgen(jjtree)*/
      {
        jjtree.closeNodeScope(jjtn004, 1);
        jjtc004 = false;
      }
      @egen* { sb = new StringBuffer(t.image); ionode = jjtn004; }/*@bgen(jjtree)*/
      finally {
        if (jjtc004) {
          jjtree.closeNodeScope(jjtn004, 1);
        }
      }
      @egen*/
        (   "." t = <IDENT>         { sb.append('.').append(t.image); }
        )*                          { ionode.setTargetType(new String(sb)); }
      }
  }

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {} 
{
  primaryExpression()
  (   ".="/bgen(jjtree) #Chain( 2) */
  {
    ASTChain jjtn001 = new ASTChain(JJTCCHAIN);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
      @egen*/
      ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
        ( LOOKAHEAD(2) methodCall() | propertyName() )
        // Also handle ",", which requires a lookahead of 2.
        |   ( LOOKAHEAD(2) projection() | selection() )
        |   "(" expression() ")"
      )@bgen(jjtree)*/
      } catch (Throwable jjte001) {
        if (jjtc001) {
          jjtree.clearNodeScope(jjtn001);
        }
      }
    }
  }
}
jjte001 = false;
} else {
    jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/

/*@bgen(jjtree) #Chain(2)*/
{
    ASTChain jjtn002 = new ASTChain(JJTCHAIN);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
    @*/@egen*/
    index(/*@egen*/)/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjte002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/

| "(" expression(/*@egen*/)/*@bgen(jjtree) #Eval(2)*/
void primaryExpression() : {
    Token t;
    String className = null;
}
{
    (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |
    <FLT_LITERAL>)*@bgen(jjtree) #Const( 0 ) */
    {
        ASTConst jjtn001 = new ASTConst(JJTCONST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
       /*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn001, 0);
            jjtc001 = false;
        }
       /*@egen*/
        { jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
    } finally {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}/*@egen*/
if (jjtc001) {
    jjtree.closeNodeScope(jjtn001, 0);
};

/*@egen*/
|
"true"/*@bgen(jjtree) #Const(0) */
{
    ASTConst jjtn002 = new ASTConst(JJTCNST);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn002, 0);
    jjtc002 = false;
}
/*@egen*/
[ jjtn002.setValue( Boolean.TRUE ); ]/*@bgen(jjtree)*/
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 0);
    }
}

/*@egen*/
|
"false"/*@bgen(jjtree) #Const(0) */
{
    ASTConst jjtn003 = new ASTConst(JJTCNST);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn003, 0);
    jjtc003 = false;
}
/*@egen*/
[ jjtn003.setValue( Boolean.FALSE ); ]/*@bgen(jjtree)*/
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 0);
    }
}

/*@egen*/
|/*@bgen(jjtree) #Const(0) */
{
    ASTConst jjtn004 = new ASTConst(JJTCNST);
boolean jjtc004 = true;
jtree.openNodeScope(jjtn004);
}
try {
  "null"/*@bgen(jjtree)*/
} finally {
  if (jjtc004) {
    jjtree.closeNodeScope(jjtn004, 0);
  }
}
/*@egen*/                                  // Null is the default value in an ASTConst
|
  LOOKAHEAD(2) "#this"/*@bgen(jjtree) #ThisVarRef( 0) */
 |
  "null"/*@bgen(jjtree)*/
} finally {
  if (jjtc004) {
    jjtree.closeNodeScope(jjtn004, 0);
  }
} finally {
  if (jjtc005) {
    jjtree.closeNodeScope(jjtn005, 0);
    jjtc005 = false;
  }
    jjtn005.setName( "this" ); }/*@bgen(jjtree)*/
} finally {
  if (jjtc005) {
    jjtree.closeNodeScope(jjtn005, 0);
  }
}
/*@egen*/
  |
  LOOKAHEAD(2) "#root"/*@bgen(jjtree) #RootVarRef( 0) */
 |
  "null"/*@bgen(jjtree)*/
} finally {
  if (jjtc006) {
    jjtree.closeNodeScope(jjtn006, 0);
    jjtc006 = false;
  }
    jjtn006.setName( "root" ); }/*@bgen(jjtree)*/
} finally {
  if (jjtc006) {

// Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.

( LOOKAHEAD(2) methodCall() | propertyName() )

index()

"(" expression() ")"

"{/*@bgen(jjtree) List */

ASTList jjtn009 = new ASTList(JJTLIST);
boolean jjtc009 = true;
jjtree.openNodeScope(jjtn009);
}

try {

/*@egen*/ 

[assignmentExpression() (""," assignmentExpression()*)]/*@bgen(jjtree)*/

} catch (Throwable jjte009) {

if (jjtc009) {

jjtree.clearNodeScope(jjtn009);
jjtc009 = false;
} else {

jjtree.popNode();

}

if (jjte009 instanceof RuntimeException) {

throw (RuntimeException)jjte009;
}

if (jjte009 instanceof ParseException) {

throw (ParseException)jjte009;
}

throw (Error)jjte009;

} finally {

if (jjtc009) {

jjtree.closeNodeScope(jjtn009, true);
}

} /*@egen*/ "}"

LOOKAHEAD(2)/@bgen(jjtree) Map */

ASTMap jjtn010 = new ASTMap(JJTMAP);
boolean jjtc010 = true;
jjtree.openNodeScope(jjtn010);

try {

/*@egen*/ (/"#$" (className=classReference())? "[" [keyValueExpression() (""," keyValueExpression())*] 
jjtn010.setClassName(className); ] "]") /*@bgen(jjtree)*/

} catch (Throwable jjte010) {

if (jjtc010) {

}
void keyValueExpression() {
    /**<@egen*/
    }
    /**<@bgen(jjtree) KeyValue */
    {
        ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /**<@egen*/
        ( assignmentExpression() (":" assignmentExpression())? /**<@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
        }
    }
/*@egen*/
    )
}
void staticReference() {
    String className = "java.lang.Math";
    Token t;
    
    className=classReference()
    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
        LOOKAHEAD(2)
            staticMethodCall( className )
            |
        t=<IDENT>@*/bgen(jjtree) #StaticField( 0) */
        |
        {}) @*/bgen(jjt) BrowserAnimationsModule( 0 ) { 
        |
            ASTStaticField jjtn001 = new ASTStaticField(JJTSTATICFIELD);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
    
    try {
        @*/bgen(jjtree) { 
        |
            jjtree.closeNodeScope(jjtn001, 0);
            jjtc001 = false;
        }
    } @*/bgen(jjtree) try {
        @*/bgen(jjtree) { 
        |
            jjtn001.init( className, t.image ); } @*/bgen(jjtree) {
        |
            finally {
                if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001, 0);
                }
            }
        }
    } @*/bgen(jjtree) {
        |
        @*/bgen(jjtree) {
        |
            jtt.closeNodeScope(jjtn001, 0);
        }
    }
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 0);
    }
}

String classReference(): {
    String result = "java.lang.Math";
    
    "@" ( result=className() )? "@" { return result; }
}

String className(): {
    Token t;
    StringBuffer result;
}
void constructorCall() : {/*@bgen(jjtree) Ctor */
ASTCtor jjtn000 = new ASTCtor(JJTCCTOR);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
String className;
Token t;
StringBuffer sb;
} /*@bgen(jjtree) Ctor */
try {
/*@egen*/
"new" className=className()

( LOOKAHEAD(2) ( 
"(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
{ jjtree.closeNodeScope(jjtn000, true);
jjtc000 = false;
}
/*@egen*/
{ jjtn000.setClassName(className);
}
)
}

LOOKAHEAD(2) ( 
"[ " ] "["/*@bgen(jjtree) List */
{ ASTList jjtn001 = new ASTList(JJTLIST);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/ [assignmentExpression() ( "," assignmentExpression() )*]/*@bgen(jjtree)*/
} catch (Throwable jjte001) { 
if (jjtc001) {
jjtree.clearNodeScope(jjtn001);
jjtc001 = false;
} else {
jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
} else {
    throw (Error)jjte001;
}
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/       "}"/*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{
    jjtn000.setClassName(className);
    jjtn000.setArray(true);
}
LOOKAHEAD(2) (  
"[" assignmentExpression() "]"/*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{
    jjtn000.setClassName(className);
    jjtn000.setArray(true);
}
)="/*/bgen(jjtree)*/"  
/*@bgen(jjtree)*/
)} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {

throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
  if (jjtc000) {
    jjtree.closeNodeScope(jjtn000, true);
  }
}
/*@egen*/
}

void propertyName() {/*@bgen(jjtree) Property */
  ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
 /*@egen*/
  Token t;
  try {
   /*@egen*/ t=<IDENT>/*@bgen(jjtree) Const */
    {
      ASTConst jjtn001 = new ASTConst(JJTCONST);
      boolean jjtc001 = true;
      jjtree.openNodeScope(jjtn001);
    }
    try {
     /*@egen*//*@bgen(jjtree)*/
      {
        jjtree.closeNodeScope(jjtn001, true);
        jjtc001 = false;
      }
     /*@egen*/ { jjtn001.setValue( t.image ); }/*@bgen(jjtree)*/
    } finally {
      if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
      }
    }
   /*@egen*/       /*@bgen(jjtree)*/
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
 /*@egen*/}
```java
void staticMethodCall( String className )      {
    ASTStaticMethod jjtn000 = new ASTStaticMethod(JJTSTATICMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@bgen(jjtree) StaticMethod */
    Token t;
    }
    /*@bgen(jjtree) StaticMethod */
    try {
        /*@egen*/
        t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
    /*@egen*/
    { jjtn000.init( className, t.image ); }/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
            } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
    /*@egen*/
    }

    void methodCall()      {
    ASTMethod jjtn000 = new ASTMethod(JJMETHOCD);  
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@bgen(jjtree) Method */
    Token t;
    }
    /*@bgen(jjtree) Method */
    try {
        /*@egen*/
```
void selection() : {} 
{
    LOOKAHEAD(2) selectAll()
    | 
    LOOKAHEAD(2) selectFirst()
    | 
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() : {/*@bgen(jjtree) Select */
    ASTSelect jjtn000 = new ASTSelect(JJTSELECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
   /*@egen*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
} /*@egen*/
} /*@bgen(jjtree) Select */
if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/**@egen*/

/*@gen*/

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectFirst() : {/*@bgen(jjtree) SelectFirst */
    ASTSelectFirst jjtn000 = new ASTSelectFirst(JJTSELECTFIRST);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}
{/*@bgen(jjtree) SelectFirst */
    try {
        /*@egen*/
        "{" /*" expression () "}" /*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException)jjte000;
            }
            if (jjte000 instanceof ParseException) {
                throw (ParseException)jjte000;
            }
            throw (Error)jjte000;
        }
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
    /*@eegen*/
}
/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectLast() : {/*@bgen(jjtree) SelectLast */
    ASTSelectLast jjtn000 = new ASTSelectLast(JJTSELECTLAST);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}/*@bgen(jjtree) SelectLast */
try {
    /*@egen*/
    "[" "$" expression() "]"/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void index() : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}/*@bgen(jjtree) Property */
try {
    /*@egen*/
    "[" expression() "]"/*@bgen(jjtree)*/
    
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/ { jjtn000.setIndexedAccess(true); }

  <DYNAMIC_SUBSCRIPT>/*@bgen(jjtree) Const */
  {
    ASTConst jjtn001 = new ASTConst(JJTCONST);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
  }
  try {
   /*@egen*//*@bgen(jjtree)*/{
    jjtree.closeNodeScope(jjtn001, true);
    jjtc001 = false;
  } finally {
    if (jjtc001) {
      jjtree.closeNodeScope(jjtn001, true);
    }
  } /*@egen*/ { jjtn000.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);  
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/ { jjtn000.setIndexedAccess(true); }
} /*@bgen(jjtree)*/
/*@egen*/
}
// LEXER PRODUCTIONS
TOKEN_MGR_DECLS:
{
/** Holds the last value computed by a constant token. */
Object literalValue;
/** Holds the last character escaped or in a character literal. */
private char charValue;
/** Holds char literal start token. */
private char charLiteralStartQuote;
/** Holds the last string literal parsed. */
private StringBuffer stringBuffer;
/** Converts an escape sequence into a character value. */
private char escapeChar()
{
int ofs = image.length() - 1;
switch ( image.charAt(ofs) ) {
case 'n': return '\n';
case 'r': return '\r';
case 't': return '\t';
case 'b': return '\b';
case 'f': return '\f';
case '\\': return '\\';
case '\'': return '\'';
case '\"': return '\"';
}
// Otherwise, it's an octal number. Find the backslash and convert.
while ( image.charAt(--ofs) != '\\' )
{}
int value = 0;
while ( ++ofs < image.length() )
value = (value << 3) | (image.charAt(ofs) - '0');
return (char) value;
}
private Object makeInt()
{
Object result;
String s = image.toString();
int base = 10;
if ( s.charAt(0) == '0' )
base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;

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if ( base == 16 )
  s = s.substring(2); // Trim the 0x off the front
switch ( s.charAt(s.length()-1) ) {
  case 'l': case 'L':
    result = Long.valueOf( s.substring(0,s.length()-1), base );
    break;
  case 'h': case 'H':
    result = new BigInteger( s.substring(0,s.length()-1), base );
    break;
  default:
    result = Integer.valueOf( s, base );
    break;
}
return result;
}

private Object makeFloat()
{
  String s = image.toString();
  switch ( s.charAt(s.length()-1) ) {
    case 'f': case 'F':
      return Float.valueOf( s );
    case 'b': case 'B':
      return new BigDecimal( s.substring(0,s.length()-1) );
    case 'd': case 'D':
      default:
        return Double.valueOf( s );
      }
  }
}

// Whitespace -- ignored
SKIP:
{  " " | "\t" | "\f" | "\r" | "\n" }

// An identifier.
TOKEN:
{
  < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
  |
  < #LETTER: ["$", "A"-"Z", "_"],
"a"-"z",
"u00c0"-"u00d6",
"u00d8"-"u00f6",
"u00f8"-"u00ff",
"u0100"-"u1fff",
"u3040"-"u318f",
"u3300"-"u337f",
"u3400"-"u3d2d",
"u4e00"-"u9fff",
"uf900"-"ufaff"
] >

< #DIGIT:
[
"0"-"9",
"u0660"-"u0669",
"u06f0"-"u06f9",
"u0966"-"u096f",
"u09e6"-"u09ef",
"u0a66"-"u0a6f",
"u0a86"-"u0aaf",
"u0b66"-"u0b6f",
"u0be7"-"u0bef",
"u0c66"-"u0c6f",
"u0ce6"-"u0cef",
"u0d66"-"u0d6f",
"u0e50"-"u0e59",
"u0ed0"-"u0ed9",
"u1040"-"u1049"
] >

}
```java
/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */
MORE:
{
  '""  : WithinBackCharLiteral
|
  """  { stringBuffer = new StringBuffer(); } : WithinCharLiteral
|
  "\\" { stringBuffer = new StringBuffer(); } : WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
  < ESC: \" ( ["n","r","t","b","f","\n","\"","\"","> "","","]
   | (["0"-"3"])? ["0"-"7"] (["0"-"7"])?
   )
   >
   { charValue = escapeChar(); stringBuffer.append(charValue); }
  |
  < (~[""","]") >
  { charValue = image.charAt(image.length()-1); stringBuffer.append(charValue); }
}

<WithinCharLiteral> TOKEN:
{
  < CHAR_LITERAL: """
  {
    if (stringBuffer.length() == 1) {
      literalValue = new Character(charValue);
    } else {
      literalValue = new String(stringBuffer);
    }
  }
  : DEFAULT
}

<WithinBackCharLiteral> MORE:
{
  < BACK_CHAR_ESC: <ESC> >
  { charValue = escapeChar(); }
  |
  < (~[""","]") >
  { charValue = image.charAt(image.length()-1); }
}
```
/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */

TOKEN:
{
   < INT_LITERAL:
      ( "0" (["0"-"7"])* (["1"-"9"] (["0"-"9"])*) | "0" ["x","X"] (["0"-"9","a"-"f","A"-"F"])*)
      (["l","L","h","H"])?
      >
      { literalValue = makeInt(); }
   |
   < FLT_LITERAL:
      ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)? | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)? | <DEC_DIGITS> <FLT_SUFF> )
      >
      { literalValue = makeFloat(); }
   |
   < #DEC_FLT: ("0"-"9")+ "." (["0"-"9"])* | "." (["0"-"9"])+ >
   |
   < #DEC_DIGITS: (["0"-"9"])+ >
   |
   < #EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+ >
   |
   < #FLT_SUFF: ["d","D","f","F","b","B"] >
Found in path(s):
* /opt/cola/permits/113669784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ognl.jj
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//--------------------------------------------------------------------------

/*
 * This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
 * language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
 * Blanshard then made up the new name and implemented it using ANTLR, refining and
 * polishing the language a bit on the way. Drew maintained the system for a couple of
 * years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
 * dependency on ANTLR.
 *
 * See package.html for a description of the language.
 */
options {
    // Parser options
    LOOKAHEAD = 1;
    STATIC = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT = true;
}

    // Tree options
    MULTI = true;
    NODE_DEFAULT_VOID = true;
}

PARSER_BEGIN(OgnlParser)

package ognl;

import java.math.*;

/**
  * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
  * syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
  */

public class OgnlParser {
    
    PARSER_END(OgnlParser)

    /**
     * This is the top-level construct of OGNL.
     */
    Node topLevelExpression() : {}
    {
        expression() <EOF> { return jjtree.rootNode(); }
    }

    // sequence (level 14)
    void expression() : {}
    {
        assignmentExpression() ( "," assignmentExpression() #Sequence(2) )* 
    }

    // assignment expression (level 13)
    void assignmentExpression() : {}
    { 

    conditionalTestExpression() [ "=" assignmentExpression() #Assign(2) ]
}

// conditional test (level 12)
void conditionalTestExpression(): {}
{
    logicalOrExpression()
    [ "?" conditionalTestExpression() ":" conditionalTestExpression() #Test(3) ]
}

// logical or (||) (level 11)
void logicalOrExpression(): {}
{
    logicalAndExpression() (("||" | "or") logicalAndExpression() #Or(2))*
}

// logical and (&&) (level 10)
void logicalAndExpression(): {}
{
    inclusiveOrExpression() (("&&" | "and") inclusiveOrExpression() #And(2))*
}

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression(): {}
{
    exclusiveOrExpression() (("|" | "bor") exclusiveOrExpression() #BitOr(2))*
}

// exclusive or (^) (level 8)
void exclusiveOrExpression(): {}
{
    andExpression() (("^" | "xor") andExpression() #Xor(2))*
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression(): {}
{
    equalityExpression() (("&" | "band") equalityExpression() #BitAnd(2))*
}

// equality/inequality (==/!=) (level 6)
void equalityExpression(): {}
{
relationalExpression()
{
  ("==" | "eq") relationalExpression() #Eq(2)
  |
  ("!=" | "neq") relationalExpression() #NotEq(2)
}*  
}

// boolean relational expressions (level 5)
void relationalExpression() : {}
{
  shiftExpression()
{
    ("<" | "lt") shiftExpression() #Less(2)
    |
    (">" | "gt") shiftExpression() #Greater(2)
    |
    ("<=" | "lte") shiftExpression() #LessEq(2)
    |
    (">=" | "gte") shiftExpression() #GreaterEq(2)
    |
    "in" shiftExpression() #In(2)
    |
    "not" "in" shiftExpression() #NotIn(2)
  }*
}

// bit shift expressions (level 4)
void shiftExpression() : {}
{
  additiveExpression()
{
    ("<<" | "shl") additiveExpression() #ShiftLeft(2)
    |
    (">" | "shr") additiveExpression() #ShiftRight(2)
    |
    (">>>" | "ushr") additiveExpression() #UnsignedShiftRight(2)
  }*
}

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
  multiplicativeExpression()

"+" multiplicativeExpression() #Add(2)
 |
 
"-" multiplicativeExpression() #Subtract(2)
 |*
 |

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
 unaryExpression()
 ( 
 "*" unaryExpression() #Multiply(2)
 |
 
="/" unaryExpression() #Divide(2)
 |
 
="/" unaryExpression() #Remainder(2)
 |*
 |

// unary (level 1)
void unaryExpression() : {

StringBuffer sb;
Token t;
ASTInstanceof ionode;
}
{

( 
 "-" unaryExpression() #Negate(1)
 |
 
="/" unaryExpression() // Just leave it there
 |
 
="/" unaryExpression() #BitNegate(1)
 |

("!" | "not") unaryExpression() #Not(1)
 |

navigationChain()
 |

"instanceof"
 t = <IDENT> { sb = new StringBuffer(t.image); ionode = jjtThis; } #Instanceof(1)
 ( 
 
="/" t = <IDENT> [ sb.append('.').append( t.image ); ]
 |)
 |

(&: targetType( new String(sb) ); )
 |

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
    primaryExpression()
        ( "."
            ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
                ( LOOKAHEAD(2) methodCall() | propertyName() )
                // Also handle ",", which requires a lookahead of 2.
                | ( LOOKAHEAD(2) projection() | selection() )
                | ") expression() ")"
            ) #Chain(2)
        )
        index() #Chain(2)
    | ") expression() ")" #Eval(2)

    /* Using parentheses to indicate evaluation of the current
     object makes this language ambiguous, because the
     expression "ident(args)" could be seen as a single
     method call or as a property name followed by an
     evaluation. We always put the method call first and
     turn off the ambiguity warning; we always want to
     interpret this as a method call. */
    )*
}

void primaryExpression() : {
    Token t;
    String className = null;
}
{
    ( <CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |  
    <FLT_LITERAL> )
        { jjtThis.setValue( token_source.literalValue ); } #Const(0)
    | "true"                                  { jjtThis.setValue( Boolean.TRUE ); }  #Const(0)
    | "false"                                 { jjtThis.setValue( Boolean.FALSE ); } #Const(0)
    | "null" #Const(0)                        // Null is the default value in an ASTConst
    | LOOKAHEAD(2) "this"                   { jjtThis.setName( "this" ); } #ThisVarRef(0)
    | LOOKAHEAD(2) "#root"                  { jjtThis.setName( "root" ); } #RootVarRef(0)
    | LOOKAHEAD(2) "#" t=<IDENT>            { jjtThis.setName( t.image ); } #VarRef(0)
void keyValueExpression() {
    ( assignmentExpression() (":" assignmentExpression())? ) #KeyValue
}

void staticReference() {
    String className = "java.lang.Math";
    Token t;
}

{ className=classReference()

    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
        LOOKAHEAD(2)
        staticMethodCall( className )
    )

    t=<IDENT> [ jjtThis.set( className, t.image ); } #StaticField(0) ]
}

String classReference(): {
    String result = "java.lang.Math";
}

{ "@" ( result=className() )? "@" { return result; }
}

String className():
Token t;
StringBuffer result;
[
    t=<IDENT> { result = new StringBuffer( t.image ); } 
( "," t=<IDENT> { result.append('.').append( t.image ); } )* 
    { return new String(result); } 
]

void constructorCall() #Ctor :
    String className;
    Token t;
    StringBuffer sb;
    [
        "new" className=className()
            ( 
                LOOKAHEAD(2) ( 
                    "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
                        { jjtThis.setClassName(className); } 
                )
            )
            OR
            LOOKAHEAD(2) ( 
                "[" "{" [assignmentExpression() ("," assignmentExpression())*] #List "]"
                        { jjtThis.setClassName(className); 
                            jjtThis.setArray(true); 
                        } 
            )
            OR
            LOOKAHEAD(2) ( 
                "[" assignmentExpression() "]"
                        { jjtThis.setClassName(className); 
                            jjtThis.setArray(true); 
                        } 
            )
    ]

void propertyName() #Property :
    Token t;
    [
        t=<IDENT> { jjtThis.setValue( t.image ); } #Const 
    ]
void staticMethodCall( String className ) #StaticMethod : {
    Token t;
}

t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
    { jjtThis.init( className, t.image ); }
}

void methodCall() #Method : {
    Token t;
}

t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
    { jjtThis.setMethodName( t.image ); }
}

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection() #Project : {}
{
    "{" expression() "}"
}

void selection() : {}
{
    LOOKAHEAD(2) selectAll()
    |
    LOOKAHEAD(2) selectFirst()
    |
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() #Select : {}
{
    "{" "?" expression() "}"
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectFirst() #SelectFirst : {}
{
    """expr"" expression() ""
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectLast() #SelectLast : {}
{
    """expr"" expression() ""
}

void index() #Property : {}
{
    ""] expression() "]" { jjtThis.setIndexedAccess(true); }

|<DYNAMIC_SUBSCRIPT> { jjtThis.setValue( token_source.literalValue ); } #Const
{
    jjtThis.setIndexedAccess(true);
}

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
    private StringBuffer stringBuffer;

    /** Converts an escape sequence into a character value. */
    private char escapeChar()
    {
        int ofs = image.length() - 1;
        switch ( image.charAt(ofs) ) {
        case 'n': return '\n';
        case 'r': return '\r';
        case 't': return '\t';
        case 'b': return '\b';
        case 'f': return '\f';
        case '\': return '\';
        } // switch
    } // escapeChar
}
case '\':  return '\';
case '"':  return '"';
}

// Otherwise, it's an octal number.  Find the backslash and convert.
while ( image.charAt(--ofs) != '\' )
{
}
int value = 0;
while ( ++ofs < image.length() )
    value = (value << 3) | (image.charAt(ofs) - '0');
return (char) value;
}

private Object makeInt()
{
    Object result;
    String s = image.toString();
    int base = 10;

    if ( s.charAt(0) == '0' )
        base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
        s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
        case 'l': case 'L':
            result = Long.valueOf( s.substring(0,s.length()-1), base );
            break;
        case 'h': case 'H':
            result = new BigInteger( s.substring(0,s.length()-1), base );
            break;
        default:
            result = Integer.valueOf( s, base );
            break;
    }
    return result;
}

private Object makeFloat()
{
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );
        case 'b': case 'B':
            return new BigDecimal( s.substring(0,s.length()-1) );
        default:
            return new BigDecimal( s.substring(0,s.length()-1) );
    }
}
case 'd': case 'D':
    default:
        return Double.valueOf(s);
    
}
}

// Whitespace -- ignored
SKIP:
{  " " | "\t" | "\f" | "\r" | "\n" }

// An identifier.
TOKEN:
{
    < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
}

< #LETTER: [ "\u0024", "\u0041"-"\u005a", "\u005f", "\u0061"-"\u007a", "\u00c0"-"\u00d6", "\u00d8"-"\u00f6", "\u00f8"-"\u00ff", "\u0100"-"\u1fff", "\u3040"-"\u318f", "\u3300"-"\u337f", "\u3400"-"\u3d2d", "\u4e00"-"\uaff" ] >

< #DIGIT: [ "\u0030"-"\u0039", "\u0660"-"\u0669", "\u06f0"-"\u06f9", "\u0966"-"\u096f", "\u09e6"-"\u09ef", "\u0a66"-"\u0a6f", "\u0ae6"-"\u0aef", "\u0b66"-"\u0b6f", "\u0be7"-"\u0bef", "\u0c66"-"\u0c6f", "\u0ce6"-"\u0cef", "\u0d66"-"\u0d6f", "\u0e50"-"\u0e59", "\u0e60"-"\u0e69", "\u0e70"-"\u0e79", "\u0e80"-"\u0e89", "\u0e90"-"\u0e99", "\u0ee0"-"\u0eef", "\u0f00"-"\u0f0f", "\u0f10"-"\u0f1f", "\u0f20"-"\u0f2f", "\u0f30"-"\u0f39", "\u0f40"-"\u0f49", "\u0f50"-"\u0f59", "\u0f60"-"\u0f69", "\u0f70"-"\u0f79", "\u0f80"-"\u0f89", "\u0f90"-"\u0f99", "\u0faf" ] >
/**
 * Token for "dynamic subscripts", which are one of: [^], [], [$], and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */

TOKEN:
{
    < DYNAMIC_SUBSCRIPT: "[" ["^", ",", ",", ","] "] >
    {
        switch (image.charAt(1)) {
            case '^': literalValue = DynamicSubscript.first; break;
            case '|': literalValue = DynamicSubscript.mid; break;
            case '$': literalValue = DynamicSubscript.last; break;
            case '*': literalValue = DynamicSubscript.all; break;
        }
    }
}

/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */

MORE:
{
    "" : WithinBackCharLiteral
    |
    """" { stringBuffer = new StringBuffer(); }: WithinCharLiteral
    |
    "\"" { stringBuffer = new StringBuffer(); }: WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
    < ESC: "\" ( ["n","r","t","b","f","\","\",","",","",","",","",",","",","]
    | ( ("0","3") | ("0","7") ( ("0","7") )
    >
    { charValue = escapeChar(); stringBuffer.append(charValue); }
    |
    < (~["","\"] ) >
    { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}
/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */
TOKEN:
{
  < INT_LITERAL:
    ( "0" (["0"-"7"])| ["1"-"9"] (["0"-"9"])| 0" ["x","X"] (["0"-"9","a"-"f","A"-"F"]) )+
    (["l","L","h","H"])?
  >
    { literalValue = makeInt(); }

  < FLT_LITERAL:
    ( <DEC_FLT> ( <EXPONENT> )? ( <FLT_SUFF> )? |
    <DEC_DIGITS> <EXPONENT> ( <FLT_SUFF> )? |
    <DEC_DIGITS> <FLT_SUFF> )
  )
  >
    { literalValue = makeFloat(); }

  | < #DEC_FLT: (["0"-"9"])+ "," (["0"-"9"])* | "." (["0"-"9"])+ >
  | < #DEC_DIGITS: (["0"-"9"])+ >
  | < #EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+ >
  | < #FLT_SUFF: ["d","D","f","F","b","B"] >
}

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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ognl.jjt
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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IteratorEnumeration.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSelectFirst.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSequence.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTShiftLeft.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/DefaultTypeConverter.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/Node.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSelectLast.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/EnumerationElementsAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/SetPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTGreater.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTUnsignedShiftRight.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/NumberElementsAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/DynamicSubscript.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IteratorPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IteratorElementsAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/AttrQuery.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTIn.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ClassResolver.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/IntHashMap.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlException.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/EvaluationPool.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTEq.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTUnaryMinus.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSubtraction.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTAdd.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/DefaultMemberAccess.java

---

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/**
 * Thrown during bytecode enhancement conversions of ognl expressions to indicate
 * that a certain expression isn't currently supported as a pure java bytecode enhanced
 * version.
 * 
 * <p>
 * If this exception is thrown it is expected that ognl will fall back to default ognl
 * evaluation of the expression.
 * </p>
 * 
 * @author jkuhnert
 */

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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTBitNegate.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTNotIn.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTTest.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/NoSuchPropertyException.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTLess.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/CollectionElementsAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/TypeConverter.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/EnumerationPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/InappropriateExpressionException.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTKeyVal.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ObjectElementsAccessor.java

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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlRuntime.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/PropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTProject.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/Ognl.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ObjectPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTSelect.java
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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTCtor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTProperty.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTMap.java
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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/MapPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/SimpleNode.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTVarRef.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTEval.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ListPropertyAccessor.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/ASTThisVarRef.java

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* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/enhance/ContextClassLoader.java
* /opt/cola/permits/1136699784_1613864939.04/0/ognl-2-7-3-sources-2-jar/ognl/OgnlInvokePermission.java
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to attach them to the start of each source file to most effectively
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the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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1.171 spring-tx 4.3.29.RELEASE

1.171.1 Available under license:

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* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/dao/TransientDataAccessException.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/dao/DataIntegrityViolationException.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/jca/cci/CannotGetCciConnectionException.java

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* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1.jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
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Found in path(s):
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/interception/TransactionInterceptor.java

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Found in path(s):
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/ccci/connection/ConnectionFactoryUtils.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/jta/JtaTransactionManager.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/jta/JtaTransactionAnnotationParser.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/annotation/TransactionStatus.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/annotation/TransactionEventListenerFactory.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java

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jar/org/springframework/transaction/support/ResourceHolder.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
jar/org/springframework/jca/cci/core/CciOperations.java

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* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
jar/org/springframework/jca/cci/core/ConnectionCallback.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
jar/org/springframework/jca/cci/core/InteractionCallback.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
jar/org/springframework/transaction/support/SimpleTransactionScope.java
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* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-

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* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
  jar/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-
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* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/support/SmartTransactionObject.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/work/jboss/IBossWorkManagerUtils.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/support/ResourceHolderSupport.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/TransactionDefinition.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/event/TransactionEventListener.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/event/TransactionPhase.java
* /opt/cola/permits/1135840412_1613612879.55/0/spring-tx-4-3-29-release-sources-1-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
1.172 antlr 3.1.1

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/*

Template group file for the Objective C code generator.
Heavily based on Java.stg

Written by Kay Roepke <kroepke@classdump.org>

This file is part of ANTLR and subject to the same license as ANTLR itself.
group ObjC implements ANTLRCore;

objcTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0",
  "double": "0.0",
  "boolean": "false",
  "byte": "0",
  "short": "0",
  "char": "0",
  "id": "nil",
  default: "nil" // anything other than an atomic type
]

className() ::= "<name>"<! if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif Parser<endif !">

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
  docComment, recognizer,
  name, tokens, tokenNames, rules, cyclicDFAs,
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
  backtracking, synpreds, memoize, numRules,
  fileName, ANTLRVersion, generatedTimestamp, trace,
  scopes, superClass, literals) ::= <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

    @imports
    #import "<name>"<! if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif Parser<endif !>.h"

    @docComment
    @recognizer

    >>

headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
  docComment, recognizer,
  name, tokens, tokenNames, rules, cyclicDFAs,
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
  backtracking, synpreds, memoize, numRules,
  fileName, ANTLRVersion, generatedTimestamp, trace,
  scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
#import <Cocoa/Cocoa.h>
#import <ANTLR/ANTLR.h>
<@end>

<actions.(actionScope).header>

<if(LEXER)>
<lexerHeaderFile(...)>
<endif>
<if(PARSER)>
<pARSERHeaderFile(...)>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile(...)>
<endif>
>>

lexerHeaderFile() ::= 
<<
<cyclicDFAs:cyclicDFAInterface()>

#pragma mark Rule return scopes start
<rules:{rule | 
<rule:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}>}
]>
#pragma mark Rule return scopes end

#pragma mark Tokens
<tokens:{#define <name>_<it.name>	<it.type>}; separator="\n">

@interface <className()> : ANTLRLexer {
<cyclicDFAs:{dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{p | SEL <p>SyntacticPredicate;}; separator="\n">
<actions.lexer.ivars>
}

<actions.lexer.methodsdecl>

<rules:{rule | 
- ( <rule.ruleDescriptor:[ruleDescriptor]<returnType()> | )}>
<if(!rule.ruleDescriptor.isSynPred)>m<endif><rule.ruleName><if(rule.ruleDescriptor.parameterScope)<rule.ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>; 
]>

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lexer(grammar, name, tokens, scopes, rules, numRules, labelType="id<ANTLRToken> ",
        filterMode) ::= <<
<lexer rules>{rule | <rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>}>}
>
#pragma mark Rule return scopes end
*/
@implementation <className()>
static NSArray *tokenNames;

+ (void) initialize
{
// todo: get tokenNames into lexer - requires changes to CodeGenerator.java and ANTLRCore.sti
tokenNames = [[NSArray alloc] init];
}

- (id) initWithCharStream:(id<ANTLRCharStream>)anInput
{
if (nil!=(self = [super initWithCharStream:anInput])) {
    if(memoize) { 
    // initialize the memoization cache - the indices are 1-based in the runtime code!
    [ruleMemo addObject:[NSNull null]];     // dummy entry to ensure 1-basedness.
    for (int i = 0; i < <numRules>; i++) {
        [[state ruleMemo] addObject:[NSMutableDictionary dictionary]];
    }
    }

    <synpreds:{p | <lexerSynpred(name=p)>};separator="\n"> 
<lexer rules>{dfa | dfa<dfa.decisionNumber> = [[<name>DFA<dfa.decisionNumber> alloc] initWithRecognizer:self];}; separator="\n"> 

    <actions.lexer.init>
}
return self;
}

- (void) dealloc
{
    <lexer rules>{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
*/
filteringNextToken() ::= <<
- (id<ANTLRToken>) nextToken
{
  <sharedStateLocalVarDefinition()>
  while (YES) {
    if ( [input LA:1] == ANTLRCharStreamEOF ) {
      return nil; // should really be a +eofToken call here -> go figure
    }
  }

@end
>>

(actions.lexer.dealloc)
[super dealloc];
}

+(NSString *) tokenNameForType:(int)aTokenType
{
  return nil;
}

+(NSArray *) tokenNames
{
  return tokenNames;
}

-(NSString *) grammarFileName
{
  return @"<fileName>";
}

<if(actions.lexer.reset)>
- (void) reset
{
  <actions.lexer.reset>
  [super reset];
}
<endif>

<if(filterMode)>
<filteringNextToken()>
<endif>

<rules; separator="\n\n">

@end
[self setToken:nil];
[_state setChannel:ANTLRTokenChannelDefault];
[_state setTokenStartLine:[input line]];
[_state setTokenCharPositionInLine:[input charPositionInLine]];
[_state setTokenStartCharIndex:[self charIndex]];
@try {
    int m = [input mark];
    [_state setBacktracking:1];
    [_state setIsFailed:NO];
    [self mTokens];
    [_state setBacktracking:0];
    if ( [_state isFailed] ) {
        [input rewind:m];
        [input consume]; <! // advance one char and try again !>
    } else {
        [self emit];
        return token;
    }
}
@catch (ANTLRRecognitionException *re) {
    // shouldn't happen in backtracking mode, but...
    [self reportError:re];
    [self recover:re];
}
}
>

filteringActionGate() ::= "[_state backtracking] == 1"

treeParserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass="ANTLRTreeParser") ::= <<
<parserHeaderFile(...)> >>

parserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass="ANTLRParser") ::= <<
<<
<cyclicDFAs:cyclicDFAInterface()>

#pragma mark Tokens
#pragma mark Dynamic Global Scopes
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(scope=it)><endif>}> 

#pragma mark Dynamic Rule Scopes
<rules:{rule |
<rule.ruleDescriptor: { ruleDescriptor | <ruleAttributeScopeDecl(scope=ruleDescriptor.ruleScope)> }>}>

#pragma mark Rule Return Scopes
<rules:{rule |
<rule.ruleDescriptor: { ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)> })}> 

@interface <className()> : <@superClassName><superClass><@end> { 

<cyclicDFAs:{dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n"> 

<synpreds:{p | SEL <p>SyntacticPredicate;}; separator="\n"> 

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeIVar(scope=it)><endif>}> 

<rules:{rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeIVar(scope=it)>}> 

}@ivars() 

<actions.(actionScope).ivars> 

}@methodsdecl() 

@end 

/** How to generate a parser */
genericParser(name, scopes, tokens, tokenNames, rules, numRules, 
cyclicDFAs, bitsets, inputStreamType, superClass, 
ASTLabelType="id", labelType, members) ::= << 

<cyclicDFAs:cyclicDFA()>

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 1968
#pragma mark Bitsets
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>

#pragma mark Dynamic Global Scopes
<scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScopeImpl(scope=it)><endif>}>}

#pragma mark Dynamic Rule Scopes
<rules: {rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeImpl(scope=it)>}
]

#pragma mark Dynamic Rule return scopes start
<rules: {rule |
<rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>}}>
]

@interface <className()>

static NSArray *tokenNames;

+ (void) initialize
{
<bitsets:bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
tokenNames = [[NSArray alloc] initWithObjects:@"<invalid>", @"<EOR>", @"<DOWN>", @"<UP>",
<tokenNames:@<it>; separator=" ", wrap="\n"], nil];
}

@if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream
{
if ((self = [super initWithTokenStream:aStream])) {
@if(!TREE_PARSER!)
- (id) initWithTreeNodeStream:(<inputStreamType>)aStream
{
if ((self = [super initWithTreeNodeStream:aStream])) {
@end
@if(memoize)>
ruleMemo = [[NSMutableDictionary alloc] initWithCapacity:<numRules>+1];
@end
<actions.(actionScope).init>

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}@init()
- (void) dealloc
{
    <if(memoize)>
    [ruleMemo release];
    <endif>
    <cyclicDFAs:{dfa | [dfa.dfa.decisionNumber] release];} separator="\n"> <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)><endif>}> <actions.(actionScope).dealloc>
    <@dealloc()>
    [super dealloc];
}

- (NSString *) grammarFileName
{
    return @"<fileName>";
}

<actions.(actionScope).methods>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}> <@methods()> @end

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="ANTLRParser", labelType="id<ANTLRToken> ", members={<actions.parser.members>}) ::= <<
    <genericParser(inputStreamType="id<ANTLRTokenStream>", ...)>
>>

treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, labelType=[<ASTLabelType>], ASTLabelType="id", superClass="ANTLRTreeParser", members={<actions.treeparser.members>}) ::= <<
    <genericParser(inputStreamType="id<ANTLRTreeNodeStream>", ...)>
>>

/** Maintain a local variable for the shared state object to avoid calling the accessor all the time. */
sharedStateLocalVarDefinition() ::= <<
    <if(LEXER)>ANTLRLexerState<else>ANTLRBaseRecognizerState<endif> *_state = [self state];
>>
/** A simpler version of a rule template that is specific to the imaginary * rules created for syntactic predicates. As they never have return values * nor parameters etc..., just give simplest possible method. Don't do * any of the normal memoization stuff in here either; it's a waste. * As predicates cannot be inlined into the invoking rule, they need to * be in a rule by themselves. */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
- (void) <ruleName>
{
  <sharedStateLocalVarDefinition()>
  <if(trace)>NSLog("enter <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [/_state isFailed]? @"YES" : @"NO", [/_state backtracking]);
  @try {
    <block>
  } @finally {
    NSLog("exit <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [/_state isFailed]? @"YES" : @"NO", [/_state backtracking]);
  }<else>
    <block>
  </endif>
}
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if ([/_state isFailed]) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if ([/_state isBacktracking]) {/_state setIsFailed:YES; return <ruleReturnValue>();}<endif>
>>

synpred(name) ::= <<
<!name>SyntacticPredicate = @selector(<name>); !>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)>
if ([/_state isBacktracking] && [self alreadyParsedRule:input ruleIndex:<ruleDescriptor.index>]) { return
>>
```plaintext
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block, memoize) ::= <<
- (void)
m<ruleName><if(ruleDescriptor.parameterScope)<ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>
{
  // token+rule list labels
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{[_list_<it.label.text> release];}; separator="\n">"\n"
<if(!TREE_PARSER)>
[_retval setStop:[input LT:-1]];<\n>
<endif>
<endif>
</if(memoize)>
<if(backtracking)>
if ( [_state isBacktracking] ) { [self memoize:input ruleIndex:<ruleDescriptor.index>
startIndex:<ruleDescriptor.name>_StartIndex]; }
<endif>
<endif>
>>
```

**Open Source Used In Cisco Vision Dynamic Signage Director 6.4 1974**
int _type = <name>_<ruleName>;
[block]
[_state setTokenType:_type];
[endif]
@endfinally

@if(trace)NSLog("exit <ruleName> %C line=%d:%d failed=%@ backtracking=%d", [input LA:1], [self line], [self charPositionInLine], [_state isFailed] ? @"YES" : @"NO", [_state backtracking]);@endif

// rule cleanup
<ruleCleanUp()>
<ruleDescriptor.actions.finally):execAction()>
}
return;
}
// $ANTLR end <ruleName>
>

/** How to generate code for the implicitly-defined lexer grammar rule 
* that chooses between lexer rules. */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
[block]<
}
>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 // <fileName>:<description> // block
int alt<decisionNumber>=<maxAlt>;
<decls>
@@predecision()>
<decision>
@@postdecision()>
@@prebranch()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
}
@@postbranch()>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 // <fileName>:<description> //ruleblock
int alt<decisionNumber>=<maxAlt>;

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 1975
<decls>
</decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
}
>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // ruleBlockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // blockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (...)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // positiveClosureBlock
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
do {
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
    default :
    if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>;
    <if(backtracking)>
        <ruleBacktrackFailure()>
    </if(backtracking)>
ANTLREarlyExitException *eee = [ANTLREarlyExitException exceptionWithStream:input
decisionNumber:<decisionNumber>];


positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (...) block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=<<
<decls>
<preloop()>
do {
  int alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
  <alts:altSwitchCase()>
  default :
    goto loop<decisionNumber>;
  }
} while (YES); loop<decisionNumber>: ;
</@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
  break;<\n>
>>
/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel) ::= <<
// <fileName>:<description> // alt
{
<@declarations()>
<elements:element()>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>
_<label>=(<labelType>)[input LT:1];<\n>
<endif>
[self match:input tokenType:<token> follow:FOLLOW_<token>_in_<ruleName><elementIndex>];
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...>)
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (_list_<label> == nil)
_list_<label> = [[NSMutableArray alloc] init];
[_list_<label> addObject:_<elem>];
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>

---

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 1978
int _<label> = [input LA:1];
<endif>
[self matchChar:<char>];
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  _<label> = [input LA:1];
  <endif>
  [self matchCharFromChar:<a> to:<b>];
  <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
  _<label> = (<labelType>)[input LT:1];
  <endif>
  if (<sss>) {
    <postmatchCode>
    [input consume];
    <if(!LEXER)>
      [_state setIsErrorRecovery:NO];
    <endif>
    <if(backtracking)>[_state setIsFailed:NO];<endif>
  } else {
    <ruleBacktrackFailure()>
    ANTLRMismatchedSetException *mse = [ANTLRMismatchedSetException exceptionWithSet:nil stream:input];
    <@mismatchedSetException()>
    <if(LEXER)>
      [self recover:mse];
    <else>
      [self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>];
    <endif>
    @throw mse;
  }<\n>
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
  if(label)>
  _<label>Start = [self charIndex];
wildcard(label,elementIndex) ::= <<
  <if(label)>
  _<label> = ([labelType][input LT:1];</n>
  <endif>
  [self matchAny:input];
  <checkRuleBacktrackFailure()></n>
 >>

wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(...)>
 >>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  int _<label> = [input LA:1];</n>
  <endif>
  [self matchAny:input];
  <checkRuleBacktrackFailure()></n>
 >>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabel(...)>
 >>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  [<_state following] addObject:FOLLOW_<rule.name>_in_<ruleName><elementIndex>];
  <if(label)>
  _<label> = [self <rule.name>:<args; separator=" "]><endif>];</n>
  <else>
  [self <rule.name>:<args; separator=" "]><endif>];</n>
 >>
  [[_state following] removeLastObject];
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,scope) ::= <<
<ruleRef(...)>
<listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int _<label>Start<elementIndex> = [self charIndex];
[self m<rule.name><if(args)>:<args; separator=" ":><endif>];
<checkRuleBacktrackFailure()><
<_<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeInvalid channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
[_<label> setLine:[self line]];<else>
[self m<rule.name><if(args)>:<args; separator=" ":><endif>];
<checkRuleBacktrackFailure()><
</if>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int _<label>Start<elementIndex> = [self charIndex];
[self matchChar:ANTLRCharStreamEOF];
<checkRuleBacktrackFailure()><
<_<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeEOF channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
[_<label> setLine:[self line]];<else>
[self matchChar:ANTLRCharStreamEOF];
<checkRuleBacktrackFailure()><
</if>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<

---

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 1981
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == ANTLRTokendTypeDOWN ) {
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
    }
<else>
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
    <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    @throw [ANTLRFailedPredicateException exceptionWithRuleName:"<ruleName>",
predicate:""<description>"" stream:input];
}
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
    <edges; separator="\nelse">
    else {
        if(eotPredictsAlt)
            alt<decisionNumber> = <eotPredictsAlt>;
        else
            <ruleBacktrackFailure()>
            ANTLRNoViableAltException *nva = [ANTLRNoViableAltException
            exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];
            <@noViableAltException()>
            @throw nva;
        <endif>
    }
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  
int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
* 1 loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  
int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt>;
</if>
</endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( <labelExpr> <if(predicates)>&& <predicates><endif>) {
<targetState>
}
>>

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {

default:
@if(eotPredictsAlt)
alt<decisionNumber> = <eotPredictsAlt>;
@else
<ruleBacktrackFailure>()
ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];
@noViableAltException() @throw nvae;
@endif
@endif

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) { 
<edges; separator="\n">
} \n
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) { 
<edges; separator="\n">
@if(eotPredictsAlt)
default:
alt<decisionNumber> = <eotPredictsAlt>
break;\n@endif
} \n
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
<targetState>
brea; 
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used * in the rule to predict an alt just like the fixed DFA case. * The <name> attribute is inherited via the parser, lexer, ... */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict];
>>
/** Used in headerFile */
cyclicDFADinterface\(\text{dfa}\) ::= <<
#pragma mark Cyclic DFA interface start <name>DFA<dfa.decisionNumber>
@interface <name>DFA<dfa.decisionNumber> : ANTLRDFA {} @end
#pragma mark Cyclic DFA interface end <name>DFA<dfa.decisionNumber>
>>

/** Used in lexer/parser implementation files */
cyclicDFA\(\text{dfa}\) ::= <<
#pragma mark Cyclic DFA implementation start <name>DFA<dfa.decisionNumber>
@implementation <name>DFA<dfa.decisionNumber>
const static int <name>dfa<dfa.decisionNumber>_eot\[\text{dfa.numberOfStates}\] =
    \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="-1"} \};
const static int <name>dfa<dfa.decisionNumber>_eof\[\text{dfa.numberOfStates}\] =
    \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="-1"} \};
const static unichar <name>dfa<dfa.decisionNumber>_min\[\text{dfa.numberOfStates}\] =
    \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="0"} \};
const static unichar <name>dfa<dfa.decisionNumber>_max\[\text{dfa.numberOfStates}\] =
    \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="0"} \};
const static int <name>dfa<dfa.decisionNumber>_accept\[\text{dfa.numberOfStates}\] =
    \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="-1"} \};
const static int <name>dfa<dfa.decisionNumber>_special\[\text{dfa.numberOfStates}\] =
    \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="-1"} \};
const static int <name>dfa<dfa.decisionNumber>_transition\[\text{dfa.numberOfStates}\] =
    \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="1"} \};
const static int <name>dfa<dfa.decisionNumber>_transition\langle c0\rangle = \{
        \text{\texttt{\textbackslash n"}}, separator=\"", \text{null="-1"} \};
    
@end

- (id) initWithRecognizer:(ANTLRBaseRecognizer *) theRecognizer
{
    if ((self = [super initWithRecognizer:theRecognizer]) != nil) {
        eot = <name>dfa<dfa.decisionNumber>_eot;
        eof = <name>dfa<dfa.decisionNumber>_eof;
        min = <name>dfa<dfa.decisionNumber>_min;
        max = <name>dfa<dfa.decisionNumber>_max;
        accept = <name>dfa<dfa.decisionNumber>_accept;
        special = <name>dfa<dfa.decisionNumber>_special;
        if (!transition = calloc(\text{dfa.numberOfStates}, sizeof(\text{void}*))) {
            [self release];
            return nil;
        }
        \text{\texttt{\textbackslash n"}} \};
    }
    <dfa.transitionEdgeTables:\{ whichTable \text{transition} \langle c0\rangle =
    <name>dfa<dfa.decisionNumber>_transition\langle whichTable\rangle\}; separator=\"\text{\textbackslash n}"};
    return self;
}
<if(dfa.specialStateSTs)>
 - (int) specialStateTransition:(int) s
 {
 int _s = s;
 switch ( s ) {
 <dfa.specialStateSTs: { state |
 case <i0> : <! compressed special state numbers 0..n-1 !>
 <state> }; separator="\n">
 }
 <if(backtracking)>
 if ([recognizer isBacktracking]) {
 [recognizer setIsFailed:YES];
 return -1;
 }
 <endif>
 ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
 exceptionWithDecision:<dfa.decisionNumber> state:_s stream:[recognizer input]];
 <! [self error:nvae]; !> <! for debugger - do later !>
 @throw nvae;
 }<\n>
 <endif>

 - (void) dealloc
 {
 free(transition);
 [super dealloc];
 }

 - (NSString *) description
 {
 return @"<dfa.description>";
 }

 <@errorMethod()>

@end
#pragma mark Cyclic DFA implementation end <name>DFA<dfa.decisionNumber>

>>
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
@if(semPredState)>
 [[recognizer input] rewind];<\n>
<else>
 int LA<decisionNumber>_<stateNumber> = [input LA:1];<\n>
<endif>
 s = -1;
 <edges: separator="\nelse ">
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(first(operands)<rest(operands):{o | ||<o>}>)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred,description) ::= "<pred>"

/** synpreds are broken in cyclic DFA special states
* Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
* method in
* ANTLRDFA
*/
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>SyntacticPredicate stream:input]"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>]==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\<==<lower> && LA<decisionNumber>_<stateNumber>\<==<upper>)
>>
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "([input LA:<k>]>=<lower>
&& [input LA:<k>]=<<upper>)"

setTest(ranges) ::= "<ranges; separator="||">"

// ATTRIBUTES

globalAttributeScopeDecl(scope) ::= <<
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\n"}
//@interface <name><scope.name>Scope : NSObject {
// use KVC to access attributes!
@end
>>

globalAttributeScopeIVar(scope) ::= <<
NSMutableArray *<name>_<scope.name>_stack;
>>

globalAttributeScopeImpl(scope) ::= <<
@implementation <name><scope.name>Scope
@end
>>

globalAttributeScopeInit(scope) ::= <<
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
>>

globalAttributeScopeDealloc(scope) ::= <<
[<name>_<scope.name>_stack release];
>>

ruleAttributeScopeDecl(scope) ::= <<
@if(scope.attributes)
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\n"}
//@interface <name><scope.name>Scope : NSObject {
// use KVC to access attributes!
@end
@end
>>

ruleAttributeScopeIVar(scope) ::= <<
NSMutableArray *<name>_<scope.name>_stack;
>>

ruleAttributeScopeImpl(scope) ::= <<
@if(scope.attributes)
>>
@implementation <name><scope.name>Scope
@end

ruleAttributeScopeInit(scope) ::= <<
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
>>

ruleAttributeScopeDealloc(scope) ::= <<
[name]_<scope.name>_stack release;
>>

returnTypeName() ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasMultipleReturnValues)
<className()>_<ruleDescriptor.name>_return
@else
@if(ruleDescriptor.hasSingleReturnValue)
<ruleDescriptor.singleValueReturnType>
@else
void
@endif
@endif
@else
void<! for synpreds this is always void !>
@endif
>>

returnType() ::= <<
$returnTypeName()><if(!ruleDescriptor.isSynPred)><if(ruleDescriptor.hasMultipleReturnValues)>
*<endif><endif>
>>

/* Generate the Objective-C type associated with a single or multiple return
* values. */
ruleLabelType(referencedRule) ::= <<
@if(!ruleDescriptor.isSynPred)>if(ruleDescriptor.hasMultipleReturnValues)
<className()>_<referencedRule.name>_return *
@else
@if(ruleDescriptor.hasSingleReturnValue)
<referencedRule.singleValueReturnType>
@else
void
@endif
@endif
>>
/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<objcTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> _<label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScopeInterface(scope) ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasMultipleReturnValues)
@interface <returnTypeName()> : ANTLR<if(TREE_PARSER)>Tree<endif>ParserRuleReturnScope {
<scope.attributes:{<it.decl>;}; separator="\n"> 
@ivars()
<actions.(actionScope).ruleReturnIvars>
}@methods()
<actions.(actionScope).ruleReturnMethodsDecl>
@end
@end
@end
>>

returnScope(scope) ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasMultipleReturnValues)
@interface <returnTypeName>()
@end
@end
>>

returnScope(scope) ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasMultipleReturnValues)
@end
@end
>>

parameterScope(scope) ::= <<
<scope.attributes:{:(<it.type>)<it.name>}; separator=" ">
>>
<if(ruleDescriptor.hasMultipleReturnValues)>
[_retval setValue:<expr> forKey:@"<attr.name>"];
<else>
_<attr.name> =<expr>;
<if(LEXER)>
// double check this after beta release!
[_<attr.name> retain];
<endif>
<endif>
>>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "_<label>"
/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "_list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(
tokenLabelPropertyRef_text(scope,attr) ::= "[_<scope> text]"
tokenLabelPropertyRef_type(scope,attr) ::= "[_<scope> type]"
tokenLabelPropertyRef_line(scope,attr) ::= "[_<scope> line]"
tokenLabelPropertyRef_pos(scope,attr) ::= "[_<scope> charPositionInLine]"
tokenLabelPropertyRef_channel(scope,attr) ::= "[_<scope> channel]"
tokenLabelPropertyRef_index(scope,attr) ::= "[_<scope> tokenIndex]"
tokenLabelPropertyRef_tree(scope,attr) ::= "_<scope>_tree"
ruleLabelPropertyRef_start(scope,attr) ::= "[_<scope> start]"
ruleLabelPropertyRef_stop(scope,attr) ::= "[_<scope> stop]"
ruleLabelPropertyRef_tree(scope,attr) ::= "[_<scope> tree]"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
//[input textForNode:[_<scope> start]]
[input substringWithRange:NSMakeRange([[input treeAdaptor] startIndex:[_<scope> start]], [[input treeAdaptor]
stopIndex:[_<scope> start]])]
<else>
[input substringWithRange:NSMakeRange([_<scope> start], [_<scope> stop]-[_<scope> start])]
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "[_<scope> st]"
/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "_<label>"
lexerRuleLabelPropertyRef_type(scope,attr) ::= "[_<scope> type]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "[_<scope> line]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "[_<scope> charPositionInLine]"

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lexerRuleLabelPropertyRef_channel(scope,attr) ::= "[_<scope> channel]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "[_<scope> tokenIndex]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "[_<scope> text]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "[_retval start]"
rulePropertyRef_stop(scope,attr) ::= "[_retval stop]"
rulePropertyRef_tree(scope,attr) ::= "[_retval tree]"
rulePropertyRef_text(scope,attr) ::= "[input substringWithRange:NSMakeRange(_start, [input index]-_start)]"
rulePropertyRef_st(scope,attr) ::= "[_retval st]"

ruleSetPropertyRef_tree(scope,attr,expr) ::= "[_retval setValue:<expr> forKey:@"tree"]"
ruleSetPropertyRef_st(scope,attr,expr) ::= ""/*error StringTemplates are unsupported*/"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "[_state setText:<expr>];"
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "[_state tokenStartLine]"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "[_state tokenCharPositionInLine]"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" // undefined token index in lexer
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "[_state setChannel:<expr>];"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "[_state tokenStartCharIndex]"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "[(self charIndex)-1]"

lexerRulePropertyRef_text(scope,attr) ::= "[self text]"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "[_state tokenStartLine]"
lexerRulePropertyRef_pos(scope,attr) ::= "[_state tokenCharPositionInLine]"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "[_state channel]"
lexerRulePropertyRef_start(scope,attr) ::= "[_state tokenStartCharIndex]"
lexerRulePropertyRef_stop(scope,attr) ::= "[(self charIndex)-1]"

/** How to execute an action */
execAction(action) ::= <<
  <if(backtracking)><if(actions.(actionScope).synpredgate)>
  if ( <actions.(actionScope).synpredgate> ) {
    <action>
  }<else>
  if ( ![state isBacktracking] ) {
    <action>
  }
<endif><else>

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 1993
bitset(name, words64) ::= <<
const static unsigned long long <name>_data[] = {<words64:{<it>LL};separator=","}>;
static ANTLRBitSet *<name>;
<! ANTLRBitSet *<name> = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];<\n> !>
>>

bitsetInit(name, words64) ::= <<
{name} = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];<\n>
>>

codeFileExtension() ::= ".m"
headerFileExtension() ::= ".h"

true() ::= "YES"
false() ::= "NO"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/ObjC/ObjC.stg
No license file was found, but licenses were detected in source scan.

/*
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*/

group Ruby implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code. */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
# <name> (<fileName>)
# Generated by ANTLR <ANTLRVersion> on <generatedTimestamp>

<docComment>
<recognizer>
>>

/**
 * Inherits parameters from outputFile(...)
 *
 * labelType is not used for Ruby (no explicit type declarations)
 */

lexer(grammar, name, tokens, scopes, rules, numRules, labelType, filterMode, superClass) ::= <<
class <name>
  require 'stringio'

<tokens:{<it.name>=<it.type>}; separator="\n">  

  def initialize(input)
    input = StringIO.new(input) if input.respond_to?(:to_str)
    @input = CharStream.new(input)
    @backtracking = 0
    @failed = false

    <actions.lexer.init>
  end
def next_token
    # TODO: catch exceptions
    @token = nil
    @channel = nil
    @text = nil
    @start = @input.index
    @line = @input.line
    @pos = @input.column
    @type = nil
    @type_int = nil

    return :EOF if <LA(1)> == :EOF

    match_Tokens()

    if @token == nil
        @text ||= @input.substring(@start, @input.index - 1)
        @token = Token.new(@type, @type_int, @line, @pos, @text, @channel)
    end

    <if(trace)>
    puts @token.inspect
    <endif>

    return @token
end

class Token
    attr_reader :token_type
    attr_reader :int_type
    attr_reader :line
    attr_reader :pos
    attr_reader :text
    attr_reader :channel

    def initialize(token_type, int_type, line, pos, text, channel = nil)
        @token_type = token_type
        @int_type = int_type
        @line = line
        @pos = pos
        @text = text
        @channel = channel
    end

    alias :to_i :int_type
end
private

class CharStream

  attr_reader :line
  attr_reader :column
  attr_reader :index

  def initialize(input)
    @buffer = ""
    @input = input
    @line = 1
    @column = 0
    @index = 0;
  end

  # returns a Fixnum between 0 and 0xFFFF or :EOF
  def look_ahead(pos)
    offset = @index + pos - 1
    if @buffer.length < offset + 1
      char = @input.read(offset + 1 - @buffer.length)
      @buffer << char if not char.nil?
    end
    if offset < @buffer.length
      @buffer[offset]
    else
      :EOF
    end
  end

  def mark
    @state = { :index => @index, :line => @line, :column => @column }
    return 0
  end

  def rewind(marker)
    @index = @state[:index]
    @line = @state[:line]
    @column = @state[:column]
  end

  def consume
    look_ahead(1) # force a read from the input if necessary
    @column = @column + 1
    if @buffer[@index] == ?
      if @buffer[@index] == ?
        return 0
      else
        :EOF
      end
    end
  end

  # returns a Fixnum between 0 and 0xFFFF or :EOF

def look_ahead(pos)
  offset = @index + pos - 1
  if @buffer.length < offset + 1
    char = @input.read(offset + 1 - @buffer.length)
    @buffer << char if not char.nil?
  end
  if offset < @buffer.length
    @buffer[offset]
  else
    :EOF
  end
end

def mark
  @state = { :index => @index, :line => @line, :column => @column }
  return 0
end

def rewind(marker)
  @index = @state[:index]
  @line = @state[:line]
  @column = @state[:column]
end

def consume
  look_ahead(1) # force a read from the input if necessary
  @column = @column + 1
  if @buffer[@index] == ?
    if @buffer[@index] == ?
      return 0
    else
      :EOF
    end
  end
end
def substring(start, stop)
    @buffer.slice(start, stop - start + 1)
end

def match(value = nil)
    @failed = false
    case
    when value.nil?
        @input.consume()
    when value.respond_to?(:to_str)
        catch(:done) do
            value.each_byte do |c|
                @failed ||= !(<isolatedLookaheadTest(atom="c", k=1)>)
                @input.consume() if !@failed
                throw :done if @failed
            end
        end
    else
        @failed = !(<isolatedLookaheadTest(atom="value", k=1)>)
        @input.consume() if !@failed
    end
    if @failed && @backtracking <= 0
        raise "Expected #{value.respond_to?(:chr) ? value.chr : value}" end
end

def match_range(from, to)
    char = <LA(1)>
    if char != :EOF && (char >= from || char <= to)
        @failed = false
    else
        @failed = true
    end
    if @backtracking > 0
        @failed = true
    else
        raise "Expected [#{from.chr}..#{to.chr}]"
    end
end
require '<grammar.name>Lexer'

class <name>
  attr_reader :lexer

  TOKENS = [
    <tokenNames: [{<it>, <i>}]; separator=',
  ].inject({}) { [hash, pair]
    name = pair[0]
    index = pair[1] + 3 # hardcoded for now... no way to get this value from ANTLR
    if name[0] == ?'
      hash['T#{index}'] = index
    else
      hash['#{name}'] = index
    end
    hash
  }

  TOKENS[:EOF] = -1

  def initialize(input)
    if input.respond_to?(:to_str) || input.respond_to?(:read)
      input = <grammar.name>Lexer.new(input)
    end
    @lexer = input
    @input = TokenStream.new(input)
    @backtracking = 0
    @failed = false

    <actions.parser.init>

  <if(trace)>
private

class TokenStream
  attr_reader :index

  def initialize(input)
    @buffer = []
    @input = input
    @channel = nil

    @index = 0;
  end

  # returns a Token
  def look_ahead(pos)
    offset = @index + pos - 1
    while @buffer[-1] != :EOF && @buffer.length <= offset + 1
      token = @input.next_token
      if token == :EOF || token.channel == @channel
        @buffer << token
        @buffer[::]
      end
    end

    offset = -1 if offset >= @buffer.length
    if offset <= @buffer.length
      @buffer[::]
    end
  end

  def mark
    @state = { :index => @index }
    return 0
  end

  def rewind(marker)
    @index = @state[:index]
  end

  def consume
    offset = @index + pos - 1
  end

end
look_ahead(1) # force a read from the input if necessary
@index = @index + 1
end
end

def match(token = nil)
  if token.nil? || <LA(1)> == token
    @input.consume
    @failed = false
    return
  elsif @backtracking > 0
    @failed = true
  else
    raise "Expected #{token}"
  end
end
end

def look_ahead(k)
  token = @input.look_ahead(k)
  if token != :EOF
    token = token.token_type
  end
  token
end

<synpreds: synpred(); separator="\n\n">
<dfaClass()>
  <cyclicDFAs: cyclicDFA()>
end

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
        numRules, bitsets, labelType, ASTLabelType,
        superClass, members) ::=
  <<
    raise "treeParser not implemented"
  >>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# <description>
def <ruleName>_fragment
  <block>
end
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
# <description>
def <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
<ruleDescriptor.returnScope.attributes:
  { _retval_<it.name> = nil }; separator = "\n"
>
<ruleLabelDefs()>

  <if(trace)>
    puts " " * @indent + "+<ruleName>"
    @indent += 1
  <endif>

<ruleDescriptor.actions.init>

  <block>

  <if(trace)>
    @indent -= 1
    puts " " * @indent + "-<ruleName>"
  <endif>

  <if(!ruleDescriptor.isSynPred)>
    <if(ruleDescriptor.hasReturnValue)>
      <if(ruleDescriptor.hasMultipleReturnValues)>
        return { <ruleDescriptor.returnScope.attributes:{ a | :<a.name> => _retval_<a.name> }; separator = "," } }
        # TODO: need "Attribute.index" for this to work: return <ruleDescriptor.returnScope.attributes:{ a | _retval_<a.name> }; separator = ","}
      </if>
    </if>
    return _retval_<ruleDescriptor.singleValueReturnName>
  </if>
</if>
</if>
</if>
</if>
/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/

lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
def match_<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)

<lexerRuleLabelDefs()>
@if(nakedBlock)>
<block>
@type = :<ruleName>
@type_int = <ruleName>
<block>
@endif>
end
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels :{_<it.label.text> = nil}; separator="\n">
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels>
:{{list_<it.label.text> = nil}; separator="\n
>>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= 
<<
<lexerRule(...)>

/*<ruleDescriptor.charLabels:{<it.label.text> = nil}; separator="\n">
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels>
:{{list_<it.label.text> = nil}; separator="\n
>>

"*/

filteringNextToken() ::= 
    <<
        raise "filteringNextToken not implemented"
    >>

filteringActionGate() ::= 
    <<
        raise "filteringActionGate not implemented"
    >>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= 
    <<
        <switchBlock(...)>
    >>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= 
    <<
        <switchBlock(...)>
    >>

/**
 *  decision, decisionNumber don't seem to be relevant in this template
 *  alts actually has a single element
 */
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= 
    <<
        <plainBlock(...)>
    >>

/**
 *  A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= 
    <<
        <plainBlock(...)>
    >>

/** A (...)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= 
    <<
        # <description>
        matchedOnce<decisionNumber> = false
<decls>
while true
  alt<decisionNumber> = <maxAlt>
  <decision>
  case alt<decisionNumber>
    <alts:switchCase(); separator="\n"> else
      break
  end
  matchedOnce<decisionNumber> = true
end

if !matchedOnce<decisionNumber>
  raise "Expected at least one match: <description>"
end
</

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <description>
  <decls>
  while true
    alt<decisionNumber> = <maxAlt>
    <decision>
    case alt<decisionNumber>
      <alts:switchCase(); separator="\n"> else
        break
    end
  end
end
</

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block
optionalBlockSingleAlt ::= block

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// ELEMENTS

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)>
    _<label> = @input.look_ahead(1)<
  <endif>
  match(:<token>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>)
  <listLabel(elem=label, ...)> 
>>

listLabel(label,elem)::=
  <<
  list_<label> ||= []
  list_<label> \n\n_<elem>
>>

/** match a character */
charRef(char,label)::=
  <<
    <if(label)>
      _<label> = <char><
    <endif>
    match(<char>)
  >>

/** match a character range */
charRangeRef(a,b,label)::=
  <<
    <if(label)>
      _<label> = <LA(1)><
    <endif>
    match_range(<a>, <b>)
  >>

/** For now, sets are interval tests and must be tested inline */
matchSet(label, elementIndex, postmatchCode)::=
<<
  if (label)
    _<label> = <$LA(1)$><
  endif
  if <s>
    match()
    <postmatchCode>
  else
    raise "Expected set"
  end
>>

matchSetAndListLabel(label, elementIndex, postmatchCode)::=
<<
  <matchSet(...)>
  <listLabel(elem=label,...)>>
>>

/** Match a string literal */
lexerStringRef(string, label)::=
<<
  if (label)
    _<label> = <$string$><
  endif
  match<$string$><
>>

wildcard(label, elementIndex)::=
<<
  if (label)
    _<label> = <$LA(1)$><
  endif
  match()<
>>

wildcardAndListLabel(label, elementIndex)::=
<<
  <wildcard(...)>
  <listLabel(elem=label,...)>>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex)::=
<<
  if (label)
    _<label> = <$LA(1)$><
  endif
  match()<
>>
wildcardCharListLabel(label, elementIndex)::=
  
raise "wildcardCharListLabel not implemented"

/** Match a rule reference by invoking it possibly with arguments 
* and a return value or values. */
ruleRef(rule, label, elementIndex, args, scope)::=
  
<if(label)>
    _<label> = <rule>(<args; separator="", >)
  <else>
    <rule>(<args; separator="", >)
  <endif>
  
/** ids+=ID */
ruleRefAndListLabel(rule, label, elementIndex, args, scope)::=
  
<ruleRef(...)
  <listLabel(elem=label,...)>
  
/**
A: b=B;
B: .;

TODO: Should we use a real token type instead of :invalid? How do we get it?
*/
lexerRuleRef(rule, label, args, elementIndex, scope)::=
  
<if(label)>
    _<label>_start_<elementIndex> = @input.index
    _<label>_line_<elementIndex> = @input.line
    _<label>_pos_<elementIndex> = @input.column
    match_<rule>(<args; separator="", >)
    _<label> = Token.new(:invalid, 0,
    _<label>_line_<elementIndex>,
    _<label>_pos_<elementIndex>,

...
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= 
  <<
  <lexerRuleRef(...)> 
  <listLabel(elem=label,....)> 
  >>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex)::= 
  <<
  <if(label)>
    _<label> = :EOF
  <endif>
  match(:EOF)
  >>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, 
   treeLevel) ::= 
  <<
    raise "tree not implemented"
  >>

/** Every predicate is used as a validating predicate (even when it is 
* also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description)::= 
  <<
    # <description>
    if !<evalPredicate(....)>
      raise "Semantic predicate failed: #{<description>}" 
    end
  >>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::= 
  <<
    # <description>
    look_ahead<decisionNumber>_<stateNumber> = <LA(k)>
    <if(LEXER)>
      look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
if <edges; separator="\n else\n if(eotPredictsAlt)
 alt<decisionNumber> = <eotPredictsAlt><\n else>
 raise "Expected: <description>"<\n<endif>
end
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
* *
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = LA(k)

<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\n else\n if(eotPredictsAlt)
 alt<decisionNumber> = <eotPredictsAlt><\n else>
 raise "Expected: <description>"<\n<endif>
end
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a
* rule anything other than 'a' predicts exiting.
* *
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
# <description>
look_ahead<decisionNumber>_<stateNumber> = LA(k)
<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
  <if(eotPredictsAlt)>
    else
      alt<decisionNumber> = <eotPredictsAlt>
  <endif>
end

/** An accept state indicates a unique alternative has been predicted */
/** It is not clear that decisionNumber is available here */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
  * enter to the target state. To handle gated productions, we may
  * have to evaluate some predicates for this edge.
  */
dfaEdge(labelExpr, targetState, predicates)::=<<
  <labelExpr>  <if(predicates)>&& <predicates><endif>
  <targetState>
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
  # <description>
  case <LA(k)>
    <edges; separator="\n">
      else
        <if(eotPredictsAlt)>
          alt<decisionNumber> = <eotPredictsAlt><\n>
        <else>
          raise "Expected: <description>"<\n>
        <endif>
    end
  >>

/**
 * eotPredictsAlt is not relevant here
 */
dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState)::=
<<
  # <description>
  case <LA(k)>
    <edges; separator="\n">
  end
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState)::=
<<
  # <description>
  case <LA(k)>
    <edges; separator="\n">
        <if(eotPredictsAlt)><
        else
            alt<decisionNumber> = <eotPredictsAlt>
        <endif>
    end
>>

dfaEdgeSwitch(labels, targetState)::=
<<
  <if(PARSER)>
    when <labels:{<it>}; separator=","><
  <else>
    when <labels:{<it>}; separator=","><
  <endif>
    <targetState>
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description)::=
<<
  alt<decisionNumber> = DFA<decisionNumber>.predict(self, @input)
>>

/** Generate the tables and support code needed for the DFAState object
 * argument. Unless there is a semantic predicate (or syn pred, which
 * become sem preds), all states should be encoded in the state tables.
 * Consequently, cyclicDFAState/cyclicDFAEdge,eotDFAEdge templates are
 * not used except for special DFA states that cannot be encoded as
 * a transition table.
 */
cyclicDFA(dfa)::=
<<

DFA<dfa.decisionNumber> = DFA.new(
    [<dfa.eot; wrap="\n    ", separator=".", null="-1">],
    [<dfa.eof; wrap="\n    ", separator=".", null="-1">],
    [<dfa.min; wrap="\n    ", separator=".", null="0">],
    [<dfa.max; wrap="\n    ", separator=".", null="0">],
    [<dfa.accept; wrap="\n    ", separator=".", null="-1">],
    [<dfa.special; wrap="\n    ", separator=".", null="-1">],
    [
        <dfa.transition:{s | [<s; wrap="\n    ", separator=".", null="-1">]}; separator=",
            null="">]
)

def special_state_transition(s)
    <if(dfa.specialStateSTs)>
        case s
            <dfa.specialStateSTs: { state | when <i0>
                <state> }; separator="\n" >
        end

        raise "Expected: <dfa.description>"
    <else>
        -1
    <endif>
end

public :special_state_transition
>>

/** A special state in a cyclic DFA; special means has a semantic predicate
* or it's a huge set of symbols to check.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState)::=
<<
    <if(semPredState)>
        @input.rewind(0)
    <else>
        look_ahead_<decisionNumber>_<stateNumber> = <LA(1)>
    <endif>
    s = -1
    <edges>
    return s if s >= 0
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful. Again, this is for special
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= 
<<
return s = <targetStateNumber> if (labelExpr) <if(predicates)> && (<predicates>)<endif> <n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= 
<<
s = <targetStateNumber><n>
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left> && <right>)"

orPredicates(operands) ::= 
<<
(operands; separator=" || ")
>>

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "<pred>()"

/**
* It's not really clear that decisionNumber and stateNumber are available here
*/
lookaheadTest(atom, k, atomAsInt) ::= 
<<
<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> == atom
<else>
look_ahead<decisionNumber>_<stateNumber> == :atom
<endif>
>>

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom, k, atomAsInt) ::= 
<<
<if(LEXER)>
<LA(k)> == <atom>
<else>
<LA(k)> == :<atom>
<endif>
>>

/**
 * It's not really clear that decisionNumber and stateNumber are available here
 */
lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt)::=
<<
<if(LEXER)>
(look_ahead<decisionNumber>_<stateNumber> >= lower && look_ahead<decisionNumber>_<stateNumber> <= upper)
<else>
(TOKENS[look_ahead<decisionNumber>_<stateNumber>] >= lowerAsInt && TOKENS[look_ahead<decisionNumber>_<stateNumber>] <= upperAsInt)
<endif>
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
<if(LEXER)>
(<LA(k)> >= lower && <LA(k)> <= upper)
<else>
(TOKENS[<LA(k)>] >= lowerAsInt && TOKENS[<LA(k)>] <= upperAsInt)
<endif>
>>

setTest(ranges) ::= <<
<ranges; separator=" || ">
>>

// A T T R I B U T E S

parameterAttributeRef(attr)::= "<attr.name>"
parameterSetAttributeRef(attr,expr)::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex)::=
<<
raise "scopeAttributeRef not implemented"
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<

---

Open Source Used In Cisco Vision Dynamic Signage Director 6.4  2015
raise "scopeSetAttributeRef not implemented"
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope)::=  
<-
raise "isolatedDynamicScopeRef not implemented"
>>

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr)::=  
<<  
<if(referencedRule.hasMultipleReturnValues)>  
_<scope>[:<attr.name>]  
<else>  
_<scope>  
<endif>  
>>  
/**
<if(referencedRule.hasMultipleReturnValues)>  
<scope>[[attr.index]] # TODO: need "Attribute.index" for this to work  
<else>  
<scope>  
<endif>  
>>  
*/

returnAttributeRef(ruleDescriptor,attr)::=  
<<  
_retval_<attr.name>  
>>

returnSetAttributeRef(ruleDescriptor,attr,expr)::=  
<<  
_retval_<attr.name> = <expr>  
>>

/** How to translate $tokenLabel */
tokenLabelRef(label)::= 
"_<label>"

/** ids+=ID {ids} or e+=expr {e} */
listLabelRef(label)::= "list_<label>"
// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :

tokenLabelPropertyRef_text(scope,attr)::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr)::= "<scope>.token_type"
tokenLabelPropertyRef_line(scope,attr)::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr)::= "<scope>.pos"
tokenLabelPropertyRef_channel(scope,attr)::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr)::= "<scope>.index"

tokenLabelPropertyRef_tree(scope,attr)::= <<
raise "tokenLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_start(scope,attr)::=
<<
raise "ruleLabelPropertyRef_start not implemented"
>>

ruleLabelPropertyRef_stop(scope,attr)::=
<<
raise "ruleLabelPropertyRef_stop not implemented"
>>

ruleLabelPropertyRef_tree(scope,attr)::=
<<
raise "ruleLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_text(scope,attr)::=
<<
raise "ruleLabelPropertyRef_text not implemented"
>>

ruleLabelPropertyRef_st(scope,attr)::=
<<
raise "ruleLabelPropertyRef_st not implemented"
>>

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label)::=
<<
raise "lexerRuleLabel not implemented"
>>
lexerRuleLabelPropertyRef_type(scope,attr)::=
  <<
  raise "lexerRuleLabelPropertyRef_type not implemented"
>>

lexerRuleLabelPropertyRef_line(scope,attr)::=
  <<
  raise "lexerRuleLabelPropertyRef_line not implemented"
>>

lexerRuleLabelPropertyRef_pos(scope,attr)::=
  <<
  raise "lexerRuleLabelPropertyRef_pos not implemented"
>>

lexerRuleLabelPropertyRef_channel(scope,attr)::=
  <<
  raise "lexerRuleLabelPropertyRef_channel not implemented"
>>

lexerRuleLabelPropertyRef_index(scope,attr)::=
  <<
  raise "lexerRuleLabelPropertyRef_index not implemented"
>>

lexerRuleLabelPropertyRef_text(scope,attr)::=
  <<
  raise "lexerRuleLabelPropertyRef_text not implemented"
>>

lexerRulePropertyRef_text(scope,attr) ::= "@text"
lexerRulePropertyRef_type(scope,attr)::=
  <<
  raise "lexerRulePropertyRef_type not implemented"
>>

lexerRulePropertyRef_line(scope,attr) ::= "@line"
lexerRulePropertyRef_pos(scope,attr) ::= "@pos"

lexerRulePropertyRef_index(scope,attr)::=
  <<
  raise "lexerRulePropertyRef_index not implemented"
>>

lexerRulePropertyRef_channel(scope,attr) ::= "@channel"

lexerRulePropertyRef_start(scope,attr) ::= "@start"
lexerRulePropertyRef_stop(scope,attr)::=
  <<
  raise "lexerRulePropertyRef_stop not implemented"
>>
ruleSetPropertyRef_tree(scope,attr,expr) ::= <<
raise "ruleSetPropertyRef_tree not implemented"
>>

ruleSetPropertyRef_st(scope,attr,expr) ::= <<
raise "ruleSetPropertyRef_st not implemented"
>>

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr)::=
   <<
raise "rulePropertyRef_start not implemented"
>>

rulePropertyRef_stop(scope,attr)::=
   <<
raise "rulePropertyRef_stop not implemented"
>>

rulePropertyRef_tree(scope,attr)::=
   <<
raise "rulePropertyRef_tree not implemented"
>>

rulePropertyRef_text(scope,attr)::=
   <<
raise "rulePropertyRef_text not implemented"
>>

rulePropertyRef_st(scope,attr)::=
   <<
raise "rulePropertyRef_st not implemented"
>>

/** How to execute an action */
/** TODO: add syntactic predicate & bactracking gates **/
execAction(action)::=
   <<
   <action>
>>

// MISC (properties, etc...)

codeFileExtension()::=",.rb"

true()::= "true"
false()::="false"

noRewrite(rewriteBlockLevel, treeLevel)::=""

<<<<<<<<<<< --------------------------- private templates ---------------------------

bitset()::=
  <<
  raise "bitset not implemented"
  >>

element() ::= "<it.el>"

plainBlock(decls, alts, description)::=
  <<
  <decls>
  <alts>
  >>

switchBlock(description, decisionNumber, maxAlt, alts, decls, decision)::=
  <<
  # <description>
  alt<decisionNumber> = <maxAlt>
  <decls>
  <decision>
  case alt<decisionNumber>
  <alts:switchCase(); separator="\\n"> end
  >>

switchCase()::=
  <<
  when <i>
  <it>
  >>

LA(k)::=
  <<
  <if(LEXER)>
  @input.look_ahead(<k>)
  <else>
  look_ahead(<k>)
  <endif>
  >>
synpred(name) ::= <<
def <name>
start = @input.mark()
@backtracking += 1
<name>_fragment()
@backtracking -= 1
success = !@failed
@input.rewind(start)
@failed = false
return success
end
>>
parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

dfaClass() ::= <<
<if(cyclicDFAs)>
class DFA
def initialize(eot, eof, min, max, accept, special, transition)
@eot = eot
@eof = eof
@min = min
@max = max
@accept = accept
@special = special
@transition = transition
end
def predict(parser, input)
mark = input.mark()
s = 0 # we always start at s0
begin
loop do
special_state = @special[s]
if special_state >= 0
s = parser.special_state_transition(special_state)
input.consume()
next
end
if @accept[s] >= 1
return @accept[s]
end

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# look for a normal char transition
c = input.look_ahead(1).to_i
if c != :EOF && c >= @min[s] && c <= @max[s]
    next_state = @transition[s][c - @min[s]] # move to next state
    if next_state < 0
        # was in range but not a normal transition
        # must check EOT, which is like the else clause.
        # eot[s] >= 0 indicates that an EOT edge goes to another
        # state.
        if @eot[s] >= 0 # EOT Transition to accept state?
            s = @eot[s]
            input.consume()
            next
            raise "No viable alt"
        end
        s = next_state
        input.consume()
        next
    end
    if @eot[s] >= 0 # EOT Transition?
        s = @eot[s]
        input.consume()
        next
    end
    if c == :EOF && @eof[s] >= 0 # EOF Transition to accept state?
        return @accept[@eof[s]]
    end
    # not in range and not EOF/EOT, must be invalid symbol
    raise "No viable alt"
end
ensure
input.rewind(mark)
end
end
<endif>

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/Ruby/Ruby.stg
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New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the default format ANTLR uses.

group antlr;

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/tool/templates/messages/formats/vs2005.stg
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/*
group gUnitTestResult;

testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<

<title> with <num_of_test> tests
</title>

<num_of_failure> failures found:
<failure:{<it.header>
expected: <it.expected>
actual: <it.actual>
</it.header>}>[
<if(has_invalid)>
<num_of_invalid> invalid inputs found:
<invalid:{<it.header>
invalid input: <it.actual>
</it.header>}>[
<endif>


>>

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*/

/** Templates for building ASTs during tree parsing.
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
*  no label, label, list label  (label/no-label handled together)
*  child, root
*  token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var _first_0:<ASTLabelType> = null;
var _last:<ASTLabelType> = null;
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
;if(backtracking)>if ( state.backtracking==0 ) {<endif>
;if(rewriteMode)>
retval.tree = <ASTLabelType>(_first_0);
if ( adaptor.getParent(retval.tree)!=null & adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
<endif>
;if(backtracking)>}<endif>
>>
tree(root, actionsAfterRoot, children, nullableChildList, 
    enclosingTreeLevel, treeLevel) ::= <<
    _last = <ASTLabelType>(input.LT(1));
    {
        var _save_last_<treeLevel>:<ASTLabelType> = _last;
        var _first_<treeLevel>:<ASTLabelType> = null;
        <if(!rewriteMode)>
            var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
        <endif>
        <root:element()>
        <if(rewriteMode)>
            <if(backtracking)>if ( state.backtracking==0 )<endif>
            <if(root.el.rule)>
                if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
            <else>
                if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
            <endif>
        <endif>
        <actionsAfterRoot:element()>
        <if(nullableChildList)>
            if ( input.LA(1)==TokenConstants.DOWN ) {
                matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
                <children:element()>
                matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
            }<else>
                matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
                <children:element()>
                matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
            <endif>
        <if(!rewriteMode)>
            adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
        <endif>
        _last = _save_last_<treeLevel>;
    }<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add 
 * setting of _last 
 */
tokenRefBang(token,label,elementIndex) ::= <<
    _last = <ASTLabelType>(input.LT(1));
    <super.tokenRef(...)>

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// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
      <if(backtracking)>if ( state.backtracking==0 ) { <endif>
    <if(hetero)>
      <label>_tree = new <hetero>(<label>);
    <else>
      <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
    <endif>
    adaptor.addChild(root_<treeLevel>, <label>_tree);
    <if(backtracking)>}<endif>
  }<endif>
  }

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>  
  noRewrite() <! set return tree !>
  >>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(...>
  >>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <super.matchSet(..., postmatchCode={
    <if(!rewriteMode)>
      <if(backtracking)>if ( state.backtracking==0 ) { <endif>
    <if(hetero)>
      <label>_tree = new <hetero>(<label>);
    <else>
      <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
    <endif>
    root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
    <if(backtracking)>}<endif>
  }<endif>
  }

// RULE REF AST
/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)>}
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.tree);
<else> <! rewrite mode !>
if (_first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)>}
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
<ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrack(...)>}
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to * change nextToken to nextNode. */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
    new <hetero>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  </endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <if(backtracking)>if ( state.backtracking==0 ) {<
    <endif>
    retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
    <if(backtracking)>}<endif>
  </if>
>>

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  * /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
    jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
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*/

/** Templates for building ASTs during tree parsing. *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */

group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;
>>

/** What to emit when there is no rewrite rule. For auto build *
 * mode, does nothing. */

noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)._first_0;
   retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)>}<endif>
/** match ^root children$ in tree parser; override here to
* add tree construction actions.
*/

tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    {
      <ASTLabelType> _save_last_<treeLevel> = _last;
      <ASTLabelType> _first_<treeLevel> = null;
      <if(!rewriteMode)>
        <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.GetNilNode();
      <endif>
      <root:element()>
        <if(rewriteMode)>
          <if(backtracking)>if ( state.backtracking==0 )<endif>
          <if(root.el.rule)>
            if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
          <else>
            if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
          <endif>
        <endif>
      <endif>
      <actionsAfterRoot:element()>
      <if(nullableChildList)>
        if ( input.LA(1) == Token.DOWN )
        {
          Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
          <children:element()>
            Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
          }<
        <else>
          Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
          <children:element()>
          Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
        </endif>
        <if(!rewriteMode)>
          adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
        <endif>
        _last = _save_last_<treeLevel>;
    }<
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
(if(!rewriteMode)
 if(backtracking)
 if ( state.backtracking == 0 )
 {
  <endif>
  <if(hetero>)
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
  <endif>
 <listLabel(elem=label,...)>
 adapting.AddChild(root_<treeLevel>, <label>_tree);
 <if(backtracking)
 }<endif>
 <else> ! rewrite mode !
 <if(backtracking)>if ( state.backtracking==0 )<endif>
 if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
 <endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
(if(!rewriteMode)
 <if(backtracking)
 if ( state.backtracking == 0 )
 {
  <endif>
  <if(hetero>)
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>
}
<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label;elementIndex,hetero) ::= <<
tokenRefRuleRoot(...)
<ListLabel(elem=label,....)>
>>

// SET AST

matchSet(s,label,hetero;elementIndex;postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif>
<slice>adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}
<endif>
<endif>

matchRuleBlockSet(s,label,hetero;elementIndex;postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<_noRewrite()_ set return tree !>
>>

matchSetBang(s,label;elementIndex;postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero;elementIndex;debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<<

---

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<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (ASTLabelType)adaptor.DupNode(<label>);
<endif>

root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)> } <endif>
<endif>
}
>
>
>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
_last = (ASTLabelType)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode) adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.Tree;
<endif>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
_last = (ASTLabelType)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode) <if(backtracking)>if ( state.backtracking == 0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrack(...>)
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrackAndListLabel(...>)
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRootTrack(...>)
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...>)
>>

/** Streams for token refs are tree nodes now; override to
 *  change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  new <hetero>(stream_<token>.NextNode())
  <else>
  stream_<token>.NextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
  <if(backtracking)>
  if ( state.backtracking==0 )
  {
  <endif>
  retval.Tree = (<ASTLabelType>)adaptor RulePostProcessing(root_0);
  <if(backtracking)>
  }
  <endif>
  <endif>
>>
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*/
group Java implements ANTLRCore;

javaTypeInitMap ::= [
"int":"0",
"long":"0",
"float":"0.0f",
"double":"0.0",
"boolean":"false",
"byte":"0",
"short":"0",
"char":"0",
default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
    <actions.(actionScope).header>

    </imports>
    import org.antlr.runtime.*;
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        state.token = null;
        state.channel = Token.DEFAULT_CHANNEL;
        state.tokenStartCharIndex = input.index();
        state.tokenStartCharPositionInLine = input.getCharPositionInLine();
        state.tokenStartLine = input.getLine();
        state.text = null;
        try {
            int m = input.mark();
            state.backtracking=1; <! means we won’t throw slow exception !>
            state.failed=false;
            mTokens();
            state.backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( state.failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
```
else {
    emit();
    return state.token;
}
}
}
catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
}

public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
    if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="Object", labelType, members, rewriteElementType) ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
  ...

<if(grammar.grammarIsRoot)>
public static final String[] tokenNames = new String[] {
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator="", >
};
<endif>
	<tokens:{public static final int <it.name>=<it.type>;}; separator="\n">

// delegates
<grammar.delegates:
  {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
  {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>  

<!-- WARNING. bug in ST: this is cut-n-paste into Dbg.stg -->

public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>) {
    this(input, new RecognizerSharedState<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>);  
}

public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>) {
    super(input, state);
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
    <p:delegateName()>}>, this);}; separator="\n"
    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;};
    separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName>();}>
}
</@end>

public String[] getTokenNames() { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }  
public String getGrammarFileName() { return "<fileName>";  }  

<!-- generate rule/method definitions for imported rules so they appear to be defined in this recognizer. !-->  
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
    public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
    throws RecognitionException { <if(ruleDescriptor.hasReturnValue)>return <ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
    es:{a|<a.name>}; separator="", "); }]; separator="\n"
    
    <synpreds:{p | <synpred(p)>>

    <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n"
    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

    <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>
}

>>
parserCtorBody() ::= <<
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  this.state.ruleMemo = new HashMap[length(grammar.allImportedRules) + 1];
  </if>
  <endif>
  <endif>
  <grammar.delegators:
    { ifthis.<g:delegateName()> = <g:delegateName>(); } separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)> >>

/** How to generate a tree parser; same as parser except the input
 * stream is a a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={ASTLabelType}, ASTLabelType="Object", superClass="TreeParser",
members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)> >>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates.  As they never have return values
 * nor parameters etc.... just give simplest possible method.  Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
  // SANTLR start <ruleName>
  public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
    <ruleLabelDefs()>
    <if(trace)>
      traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
      try {
        <block>
      }
    } finally {
      traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
  }<ruleLabelDefs()>
  <block>
  <endif>
  <block>
  <endif>
>>
synpred(name) ::= <<
public final boolean <name>() {
    state.backtracking++;
    @start()
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !state.failed;
    input.rewind(start);
    @stop()
    state.backtracking--;
    state.failed=false;
    return success;
}<
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue>(); }
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)if (state.failed) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (state.backtracking>0) { state.failed=true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type
*  data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
"ruleAttributeScope(scope=ruleDescriptor.ruleScope)"
}}}
// $ANTLR start "<ruleName>"
// <fileName>:<description>
public final <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    try {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
        }
    <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><
    }
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
        actions.(actionScope).rulecatch
    <else>
        catch (RecognitionException re) {
            reportError(re);
            recover(input,re);
            <@setErrorReturnValue()>
        }
    <endif>
    <endif>
    <endif>
    <endif>
    finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>
}
// $ANTLR end "<ruleName>"

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
"ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType>();
retval.start = input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; 
]<
<endif>
<if(memoize)>
int <ruleDescriptor.name>._StartIndex = input.index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleListLabels,ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, 
ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleListLabels]
 :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleListLabels, 
ruleDescriptor.ruleListLabels]

"
ruleReturnValue() ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
    <ruleDescriptor.singleValueReturnName>
  <else>
    retval
  <endif>
  <endif>
  <endif>
>>

ruleCleanUp() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <if(!TREE_PARSER)>
    retval.stop = input.LT(-1);
  <endif>
  <endif>
>>

memoize() ::= <<
  <if(memoize)>
  <if(backtracking)>
    if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
  <endif>
  <endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  // $ANTLR start "<ruleName>"
  public final void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try {
      <if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
      <block>\n
<else>
    int _type = <ruleName>;
    int _channel = DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    state.type = _type;
    state.channel = _channel;
    <ruleDescriptor.actions.after):execAction()>
    </block>
    <ruleCleanUp()>
    state.type = _type;
    state.channel = _channel;
    <ruleDescriptor.actions.after):execAction()>
    </block>
    </end>
    }
finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
    }
    }
    // $ANTLR end "<ruleName>"
    >>

    /** How to generate code for the implicitly-defined lexer grammar rule
     * that chooses between lexer rules.
     */
    tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
    public void mTokens() throws RecognitionException {
    <block>
    }
    }
    >>

    // S U B R U L E S

    /** A (...) subrule with multiple alternatives */
    block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
    }
    <@postbranch()>
    >>

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/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int alt<decisionNumber>=<maxAlt>;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
  }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int cnt<decisionNumber>=0;
  <decls>
  <@preloop()> 
  loop<decisionNumber>:
    do {
      int alt<decisionNumber>=<maxAlt>;
      <@predecision()>
      <decision>
      <@postdecision()>
      switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
        default:
          if (cnt<decisionNumber> >= 1) break loop<decisionNumber>;
      }
    }
>>
EarlyExitException eee =
    new EarlyExitException(<decisionNumber>, input);
    throw eee;
}
cnt<decisionNumber>++;
} while (true);
</@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
    <<<// <fileName>:<description>
    <decls>
    </@preloop()>
    loop<decisionNumber>:
    do {
        int alt<decisionNumber>=<maxAlt>;
        </@predecision()>
        <decision>
        </@postdecision()>
        switch (alt<decisionNumber>) {
            <alts:altSwitchCase()>
            default :
                break loop<decisionNumber>;
            }
        } while (true);
    </@postloop()>
    >>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block
optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
altSwitchCase() ::= <<
case <i> :
** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<

// <fileName>:<description>
{
@declarations()
<elements:element()>
<rew>
@cleanup()
}
>>

/** What to emit when there is no rewrite. For auto build */
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
@prematch()
it.el\n>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
@if(label)\n<label>=(<labelType>)\n@endif\nmatch(input,<token>,FOLLOW_<token>_in_<ruleName>,<elementIndex>);
checkRuleBacktrackFailure()
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,....)>
>>

listLabel(label,elem) ::= <<
if (list_.<label>==null) list_.<label>=new ArrayList();
list_.<label>.add(<elem>);\n>>

/** match a character */
charRef(char,label) ::= <<
/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)
'label' = input.LA(1);
@endif
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="" ) ::= <<
@if(label)
@if(LEXER)
'label' = input.LA(1);
@else
'label' = (<labelType>)input.LT(1);
@endif
@endif
if ( <s> ) {
    input.consume();
    <postmatchCode>
@if(!LEXER)
    state.errorRecovery=false;
@endif
    <if(!backtracking)>state.failed=false;</if>
} else {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
    <if(LEXER)>
        recover(mse);
        throw mse;
    </if>
    <else>
        throw mse;
        <! use following code to make it recover inline; remove throw mse;>
        recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
        !>
    </else>
} <!-- use following code to make it recover inline; remove throw mse; -->
matchRuleBlockSet ::= matchSet
matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = getCharIndex();
match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start, getCharIndex()-1);
<else>
match(<string>); <checkRuleBacktrackFailure()></n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = (<labelType>)input.LT(1);<n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments 
* and a return value or values. The 'rule' argument was the 
* target rule name, but now is type Rule, whose toString is 
* same: the rule name. Now though you can access full rule 
* descriptor stuff. */
ruleRef(rule,label;elementIndex,args;scope) ::= <<
pushFollow(FOLLOW_<rule.name>_{in_<ruleName><elementIndex>});
<if>(label)<label>==<endif><if>(scope)<scope:delegateName()>.<endif><rule.name>(<args; separator=" ");
state_.fsp--;
<checkRuleBacktrackFailure()>
>>

ruleRefAndListLabel(rule,label;elementIndex,args;scope) ::= <<
<ruleRef(...>)
<labelLabel(elem=label,...)>
>>

lexerRuleRef(rule,label,args;elementIndex,scope) ::= <<
<if>(label)
int <label>Start<elementIndex> = getCharIndex();
<if>(scope)<scope:delegateName()>.<endif>m<rule.name>(<args; separator=" ");
<checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
<if>(scope)<scope:delegateName()>.<endif>m<rule.name>(<args; separator=" ");
<checkRuleBacktrackFailure()>
<endif>
>>

lexerRuleRefAndListLabel(rule,label,args;elementIndex,scope) ::= <<
<lexerRuleRef(...>)
<labelLabel(elem=label,...)>
>>

lexerMatchEOF(label;elementIndex) ::= <<
<if>(label)
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
>>
```java
/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    <root:element()>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
        match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
        <children:element()>
        match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    } <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    <endif>
    >>

    /** Every predicate is used as a validating predicate (even when it is
     *  also hoisted into a prediction expression). */
    validateSemanticPredicate(pred,description) ::= <<
        if ( !(<evalPredicate(...)>) ) {
            <ruleBacktrackFailure()>
            throw new FailedPredicateException(input, "<ruleName>", "<description>");
        }
    >>

    // Fixed DFA (if-then-else)
    dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
    <edges; separator="\nelse ">
    else {
        <if(eotPredictsAlt)>
        alt<decisionNumber>=<eotPredictsAlt>;
        <else>
        <ruleBacktrackFailure()>
        NoViableAltException nvae =
            new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
        <@noViableAltException()>
        throw nvae;
        <endif>
    } >>
```
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */

dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<
>edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<
>edges; separator="\nelse ">
if(!edges)
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
else {
    alt<decisionNumber>=<eotPredictsAlt>;
} <\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */

dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */

dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) && (<predicates>) ) {
    <targetState>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
    <edges; separator="\n">
    default:
        <if(eotPredictsAlt)>
            alt<decisionNumber>==eotPredictsAlt;
        <else>
            <ruleBacktrackFailure()>
            NoViableAltException nvae =
                new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
            <@noViableAltException()>
            throw nvae;
        </if>
    }<\n>
}<<
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
    <edges; separator="\n">
}<<
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
    <edges; separator="\n">
    <if(eotPredictsAlt)>
        default:
            alt<decisionNumber>=eotPredictsAlt;
            break;<\n>
    </if>
}<<
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
    {
        <targetState>
    }
    break;
}<<
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>
/
Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
static final String DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="\"\"">";
static final String DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\"\"">";
static final String DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\"\"">";
static final String DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\"\"">";
static final String DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\"\"">";
static final String DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\"\"">";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|"<s; wrap="\"\"">"}; separator="\n"}>
};

static final short[] DFA<dfa.decisionNumber>_eot =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS);

static {
    int numStates = DFA<dfa.decisionNumber>_transitionS.length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i<numStates; i++) {
        DFA<dfa.decisionNumber>_transition[i] =
    }
}
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

class DFA<dfa.decisionNumber> extends DFA {

public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this_eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}
public String getDescription() {
    return "<dfa.description>";
}
<@errorMethod()>
@if(dfa.specialStateSTs)>
public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
    <if(LEXER)> IntStream input = _input; </if>
    <if(PARSER)> TokenStream input = (TokenStream)_input; </if>
    <if(TREE_PARSER)> TreeNodeStream input = (TreeNodeStream)_input; </if>
    int_s = s;
    switch ( s ) {
    <dfa.specialStateSTs:{state | case <i0> : <! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
    }
    <if(backtracking)>
    if (state.backtracking>0) {state.failed=true; return -1;}\n}
    <endif>
    NoViableAltException nvae =
        new NoViableAltException(getDescription(), <dfa.decisionNumber>._s, input);
    error(nvae);
    throw nvae;
} </if>
</if>
}
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);

if(semPredState) {
! get next lookahead symbol to test edges, then rewind !
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();
}

s = -1;
<edges; separator="\n" else >

if(semPredState) {
! return input cursor to state before we rewound !
input.seek(index<decisionNumber>_<stateNumber>);
}

if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<

>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<

>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"
/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable * somewhere. Must ask for the lookahead directly. */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\>=<lower> && LA<decisionNumber>_<stateNumber>\=<upper>) >>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower> && input.LA(<k>)\=<upper>)"

setTest(ranges) ::= "<ranges; separator="||">"

// A T T R I B U T E S
globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
 <scope.attributes:{<it.decl>;}; separator="\n">}
protected Stack <scope.name>_stack = new Stack();\n<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
 <scope.attributes:{<it.decl>;}; separator="\n">}
protected Stack <scope.name>_stack = new Stack();\n<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName>()
<else>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>
/** Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>
delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table * must be an object, default value is "null". */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its * start/stop tokens, tree stuff, attributes, ... Leave a hole for * subgroups to stick in members. */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <ruleDescriptor:returnStructName()> extends
<TREE_PARSER>Tree<else>Parser<endif>RuleReturnScope {
  <scope.attributes:{public <it.decl>;}; separator="\n">;
  @<ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
  <if(negIndex)>
  ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
  <else>
  <if(index)>
  ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
  <else>
  ((<scope>_scope)<scope>_stack.peek()).<attr.name>
  <endif>
  <endif>
<<

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
  <if(negIndex)>
  ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
  <else>
  <if(index)>
  ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
  <else>
  ((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
  <endif>
  <endif>
<<

/** $x is either global scope or $x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  (<scope>!==null?<scope>..<attr.name>:<initValue(attr.type)>)
  <else>
  <scope>
  <endif>
<<

returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval..<attr.name>
  <else>
  <scope>
  <endif>
<<
returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> =<expr>;
  <else>
  <attr.name> =<expr>;
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Sids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>!null?scope.getText():null)"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!null?scope.getType():0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!null?scope.getLine():0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>!null?scope.getLineInLine():0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>!null?scope.getChannel():0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>!null?scope.getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(<scope>!null?Integer.valueOf(scope.getText()):0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>!null?((ASTTokenType)scope.start):null)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>!null?((ASTTokenType)scope.stop):null)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>!null?((ASTTokenType)scope.tree):null)"
ruleLabelPropertyRef_text(scope, attr) ::= <<
  <if(TREE_PARSER)>
  (<scope>!null?(input.getTokenStream().toString(input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    input.getTreeAdaptor().getTokenStopIndex(<scope>.start))):null))
  <else>
  (<scope>!null?input.toString(<scope>.start, <scope>.stop):null)
  <endif>
>>
ruleLabelPropertyRef_st(scope, attr) ::= "(<scope>!null?scope.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"
lexerRuleLabelPropertyRef_type(scope, attr) ::= "(<scope>!=null?<scope>.getType():0)"
lexerRuleLabelPropertyRef_line(scope, attr) ::= "(<scope>!=null?<scope>.getLine():0)"
lexerRuleLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():-1)"
lexerRuleLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
lexerRuleLabelPropertyRef_index(scope, attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
lexerRuleLabelPropertyRef_text(scope, attr) ::= "(<scope>!=null?<scope>.getText():null)"
lexerRuleLabelPropertyRef_int(scope, attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope, attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope, attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope, attr) ::= "<if(TREE_PARSER)>
  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
  input.toString(retval.start,input.LT(-1))
<endif>"
rulePropertyRef_st(scope, attr) ::= "retval.st"

lexerRulePropertyRef_text(scope, attr) ::= "getText()"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope, attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= "<<
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= "
public static final BitSet <name> = new BitSet(new long[]{<words64:{<it>L};separator="","}});

"\n"

codeFileExtension() ::= ".java"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/Java/Java.stg
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/

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

group ASTParser;

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,hetero,elementIndex) ::= <<
<super.tokenRef(...)>
;if(backtracking)>if ( backtracking == 0 ) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
;if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,hetero,elementIndex) ::= <<
<super.tokenRef(...)>
;if(backtracking)>if ( backtracking == 0 ) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>

root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex) ::= <<
  <tokenRefBang(...)>
  <listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,hetero,elementIndex) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

// TODO: add support for heterogeneous trees

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  <super.matchSet(..., postmatchCode={
  <if(backtracking)>if (backtracking == 0) {<endif>
    _<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
    [treeAdaptor addChild:_<label>_tree toTree:root_0];
    [_<label>_tree release];
  <if(backtracking)>}<endif>
  })>
}}>
// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|[...|C)

matchSetRuleRoot($label,hetero,elementIndex,debug) ::= <<
<super.matchSet(...., postmatchCode={
<iif(backtracking)>if (backtracking == 0) {<endif>
  _<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
  root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label> tree parentOf:root_0];
  [_<label>_tree release];
  <iif(backtracking)>}<endif>
})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<iif(backtracking)>if (backtracking == 0) <endif>[treeAdaptor addChild:[<_label> tree] toTree:root_0];
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<iif(backtracking)>if (backtracking == 0) <endif>root_0 = (<ASTLabelType>)[treeAdaptor makeNode:[<_label> tree] parentOf:root_0];
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>;
<listLabel(elem="["+label+" tree]",....)>;
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>;
<listLabel(elem="["+label+" tree]",....)>;
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>;
<listLabel(elem="["+label+" tree]",....)>;
>>

---

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// WILDCARD AST

wildcard(label, elementIndex) ::= <<
  <super.wildcard(...)>
  <if(backtracking)>if (backtracking == 0) {<endif>
    _<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:<label>];
    [treeAdaptor addChild:_<label>_tree toTree:root_0];
    [_<label>_tree release];
  <if(backtracking)>}<endif>
>>

wildcardBang(label, elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(label, elementIndex) ::= <<
  <super.wildcard(...)>
  <if(backtracking)>if (backtracking == 0) {<endif>
    _<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:<label>];
    root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
    [_<label>_tree release];
  <if(backtracking)>}<endif>
>>

createNodeFromToken(label, hetero) ::= <<
  <if(hetero)>
  new <hetero>(<label>) <! new MethodNode(IDLabel) !>
  <else>
  (<ASTLabelType>)adaptor.create(<label>)
  <endif>
>>

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : C# by code generator.
*/
group ASTDbg:

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public ITreeAdaptor TreeAdaptor
{
get {
<if(grammar.grammarIsRoot)>
return this.adaptor;
<else>
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif> <
>
<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}
set { this.adaptor = new DebugTreeAdaptor(dbg, value); }
} <
>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, adaptor);
DebugListener = proxy;
<!
Original line follows, replaced by the next two ifs:
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
!>
<if(PARSER)>
TokenStream = new DebugTokenStream(input,proxy);<
>
<endif>
<if(TREE_PARSER)>
TokenStream = new DebugTreeNodeStream(input,proxy);<
>
<endif>
try {
    proxy.Handshake(
); catch (IOException ioe) {
    ReportError(ioe);
}
>>
@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::=<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= "base(input, dbg)"

@ctorForPredefinedListener.finally() ::=<<
@if(grammar.grammarIsRoot) <! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
@endif
>>

@rewriteElement.pregen() ::= "dbg.Location(<e.line>,<e.pos>);"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
  jar/antlr/codegen/templates/CSharp/ASTDbg.stg
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
  jar/antlr/codegen/templates/CSharp2/ASTDbg.stg

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 */

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Ddbg : Java by code generator.
 */
group ASTDbg;

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public void setTreeAdaptor(TreeAdaptor adaptor) {
    <if(grammar.grammarIsRoot)>
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
    <else>
    this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
    </endif>
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
} <<
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
    new DebugEventSocketProxy(this,port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
setDebugListener(proxy);
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
try {
    proxy.handshake();
} catch (IOException ioe) {
    reportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>
}@ctorForProfilingRootGrammar.finally() ::=<<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>
}@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"
}@ctorForPredefinedListener.finally() ::=<<
@if(grammar.grammarIsRoot) <! don't create new adaptor for delegates !>
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
<\n>
<endif>
>>
}@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"

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*/ /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/Java/ASTDbg.stg
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*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
group Dbg:

@outputFile.imports() ::= <<
  <@super.imports()>
  using Antlr.Runtime.Debug;
  using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
  <if(grammar.grammarIsRoot)>
  public static readonly string[] ruleNames = new string[] {
    "invalidRule", <grammar.allImportedRules:[rST | "<rST.name>"], wrap="\n    ", separator=" ", >
  };
</if>
  <if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
    private int ruleLevel = 0;
    public int RuleLevel {
      get { return ruleLevel; }
      }
    public void IncRuleLevel() { ruleLevel++; }
    public void DecRuleLevel() { ruleLevel--; }
  </if>(profile)>
  <ctorForProfilingRootGrammar()>
  <else> <! imported grammar !>
    public int RuleLevel {
      get { return <grammar.delegators:{g| <g:delegateName()}>.RuleLevel; }
    }
    public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()}>.IncRuleLevel(); }
    public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()}>.DecRuleLevel(); }
  </ctorForDelegateGrammar()>
  </if>(profile)>
override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{

 override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex) {
    ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex, <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
} <

 override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex, <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
} <

 protected bool EvalPredicate(bool result, string predicate) {
    dbg.SemanticPredicate(result, predicate);
    return result;
} <

  constructorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input) : this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState()) { 
 }

 public <name>(<inputStreamType> input, int port, RecognizerSharedState state) : base(input, state) {
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
    <@finally()>
} <

 constructorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}

 public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state) : base(input, dbg, state) {
    Profiler p = (Profiler)dbg;
p.setParser(this);
    <parserCtorBody()>
}
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|<g.recognizerName> <g:delegateName()> }>)
    : base(input, dbg, state) {
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|,
            <g:delegateName()> }>);}; separator="\n"}
    }<\n>
>>
ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg)
    : <@superClassRef>base(input, dbg, new RecognizerSharedState())<@end> {
    <if(profile)>
        Profiler p = (Profiler)dbg;
        p.setParser(this);
    <endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|,
            <g:delegateName()> }>);}; separator="\n"}
    }<finally()>
}<<
>>
createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, input.TreeAdaptor);
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, null);
<endif>
DebugListener = proxy;
try {
    proxy.Handshake();
} catch (IOException ioe) {
    //
ReportError(ioe);
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>">

@rule.preamble() ::= <<
try {
  dbg.EnterRule(GrammarFileName, "<ruleName>");
  if ( RuleLevel==0 ) {dbg.Commerce();}
  IncRuleLevel();
  dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);\n}
>>

@lexer.debugAddition() ::= ", dbg"

@rule.postamble() ::= <<
 dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);\n}
finally {
  dbg.ExitRule(GrammarFileName, "<ruleName>");
  DecRuleLevel();
  if ( RuleLevel==0 ) {dbg.Terminate();}
} \n\n>>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::= "try { dbg.EnterSubRule(<decisionNumber>); }\n"

exitSubRule() ::= " } finally { dbg.ExitSubRule(<decisionNumber>); }\n"

enterDecision() ::= "try { dbg.EnterDecision(<decisionNumber>); }\n"

exitDecision() ::= " } finally { dbg.ExitDecision(<decisionNumber>); }\n"

enterAlt(n) ::= "dbg.EnterAlt(<n>);\n"

// Region overrides that tell various constructs to add debugging triggers
@block.predecision() ::= "<enterSubRule()><enterDecision()>"><enterDecision()>"><exitDecision()>"><exitSubRule()>

@block.postdecision() ::= "<exitDecision()>">

@block.postbranch() ::= "<exitSubRule()>">

@ruleBlock.predecision() ::= "<enterDecision()>"><enterDecision()>"><exitDecision()>"><exitDecision()>

@ruleBlock.postdecision() ::= "<exitDecision()>">

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")><enterAlt(n="1")>

@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>

@positiveClosureBlock.preloop() ::= "<enterSubRule()><enterSubRule()>

@positiveClosureBlock.postloop() ::= "<exitSubRule()><exitSubRule()>

@positiveClosureBlock.predecision() ::= "<enterDecision()><enterDecision()>

@positiveClosureBlock.postdecision() ::= "<exitDecision()><exitDecision()>

@positiveClosureBlock.earlyExitException() ::= "dbg.RecognitionException(eee);

@closureBlock.preloop() ::= "<enterSubRule()><enterSubRule()>

@closureBlock.postloop() ::= "<exitSubRule()><exitSubRule()>

@closureBlock.predecision() ::= "<enterDecision()><enterDecision()>

@closureBlock.postdecision() ::= "<exitDecision()><exitDecision()>

@altSwitchCase.prealt() ::= "<enterAlt(n=i)><enterAlt(n=i)>

@element.prematch() ::= "dbg.Location(<it.line>,<it.pos>);"

@matchSet.mismatchedSetException() ::= "dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

defaDecision(decisionNumber,description) ::= <<

try
isCyclicDecision = true;
<super.dfaDecision(...)>
}
catch (NoViableAltException nvae)
{
    dbg.RecognitionException(nvae);
    throw nvae;
} >>

@cyclicDFA.dbgCtor() ::= <<
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer, IDebugEventListener dbg) : this(recognizer)
    {
        this.dbg = dbg;
    }
} >>

@cyclicDFA.debugMember() ::= <<
IDebugEventListener dbg;
>>

@cyclicDFA.errorMethod() ::= <<
public override void Error(NoViableAltException nvae)
{
    dbg.RecognitionException(nvae);
}
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
    EvalPredicate(<pred>,"<description>")
>>

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* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/CSharp2/Dbg.stg
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*/

/** Templates for building ASTs during tree parsing.
*  
*  Deal with many combinations. Dimensions are:
*  *  Auto build or rewrite
*  *  no label, label, list label (label/no-label handled together)
*  *  child, root
*  *  token, set, rule, wildcard

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*  Each combination has its own template except that label/no label
*  is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;
>>

/** What to emit when there is no rewrite rule.  For auto build
*  mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
   retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
*  add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   _last = (<ASTLabelType>)input.LT(1);
   {
   <ASTLabelType> _save_last_<treeLevel> = _last;
   <ASTLabelType> _first_<treeLevel> = null;
   <if(!rewriteMode)>
   <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
   <endif>
   <root:element()>
   <if(rewriteMode)>
   <if(backtracking)>if ( state.backtracking==0 )<endif>
   <if(root.el.rule)>
   if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
   <else>
   if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
   <endif>
   <endif>
   <actionsAfterRoot:element()>
   <astlabeltype> _first_0 = null;
   <astlabeltype> _last = null;
   >>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}
>>

// TOKEN AST STUFF
/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)>  
>>
/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)>  
    <if(!rewriteMode)>
    <if(backtracking)>if ( state.backtracking==0 ) { <endif>
    <if(hetero)>
    <label>_tree = new <hetero>(<label>);
    <else>
    <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
    <endif><
    adaptor.addChild(root_<treeLevel>, <label>_tree);
    <if(backtracking)> } <endif>
    <else> <![ rewrite mode !]>
    <if(backtracking)>if ( state.backtracking==0 )<endif>
    if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
    <endif>
    >>
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token, label, elementIndex, hetero) ::= <<<
<tokenRef(...)>
<listLabel(elem=label,...)>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token, label, elementIndex, hetero) ::= <<<
_last = (<ASTLabelType>) input.LT(1);
<super.tokenRef(...)>
@if(!rewriteMode)
@if(backtracking)>if ( state.backtracking==0 ) {<endif>
@if(hetero)
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>) adaptor.dupNode(<label>);
<endif><
root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
@if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token, label, elementIndex, hetero) ::= <<<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>>

// SET AST
matchSet(s, label, hetero, elementIndex, postmatchCode) ::= <<<
_last = (<ASTLabelType>) input.LT(1);
<super.matchSet(..., postmatchCode={
@if(!rewriteMode)
@if(backtracking)>if ( state.backtracking==0 ) {<endif>
@if(hetero)
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>) adaptor.dupNode(<label>);
<endif><
adaptor.addChild(root_<treeLevel>, <label>_tree);
@if(backtracking)>}<endif>
<endif>
}}
matchRuleBlockSet(s, label, hetero, elementIndex, postmatchCode, treeLevel="0") ::= <<<
<matchSet(...)>

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 2086
matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)> 
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
<if(backtracking)>}<endif>
}<endif}>

root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>} <endif>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
listLabel(elem=label+.getTree(),...)
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 2087
<if(!rewriteMode)>
<if(backtracking)>
state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>) adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...>)
<listLabel(elem=label+.getTree("...")>)
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>) input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>) input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>) input.LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>) input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) { <\n><endif>
retval.tree = (ASTLabelType)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.

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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
* New style messages. This file only contains the messages in English, but no
information about which file, line, or column it occurred in.
The location and message ids are taken out of the formats directory.
Kay Roepke
*/
group en_US;
// TOOL ERRORS

// file errors
CANNOT_WRITE_FILE(arg,exception,stackTrace) ::= "cannot write file <arg>: <exception>
<stackTrace; separator=": ">
" >>
CANNOT_CLOSE_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"
CANNOT_FIND_TOKENS_FILE(arg) ::= "cannot find tokens file <arg>"
ERROR_READING_TOKENS_FILE(arg,exception,stackTrace) ::= "problem reading token vocabulary file <arg>: <exception>
<stackTrace; separator="\n">
" >>
DIR_NOT_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"
OUTPUT_DIR_IS_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"
CANNOT_OPEN_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>; reason: <exception><endif>"
INTERNAL_ERROR(arg,arg2,exception,stackTrace) ::= "internal error: <arg> <arg2><if(exception)>; reason: <exception><endif>
<stackTrace; separator="\n">
" >>
INTERNAL_WARNING(arg) ::= "internal warning: <arg>"
ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= "problems creating lexer rule listing all tokens: <exception>
<stackTrace; separator="\n">
" >>
TOKENS_FILE_SYNTAX_ERROR(arg,arg2) ::= "problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::= "cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::= "bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= "bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
" >>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::= "file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::= "file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::= "cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::= "cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::= "at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::= "cannot create target <arg> code generator: <exception>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::= "cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::= "no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::= "rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::= "lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::= "parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::= "cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::= "no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::= "reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::= "literal has no associated lexer rule: <arg>"
CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::= "literals are illegal in lexer tokens{} section: <arg>"
ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::= "reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::= "unknown attribute for <arg>: <arg2>"
UNKNOWN_RULE_ATTRIBUTE(arg,arg2) ::= "unknown attribute for rule <arg>: <arg2>"
UNKNOWN_SIMPLE_ATTRIBUTE(arg, args2) ::= "attribute is not a token, parameter, or return value: <arg>"
ISOLATED_RULE_SCOPE(arg) ::= "missing attribute access on rule scope: <arg>"
INVALID_RULE_PARAMETER_REF(arg,arg2) ::= "cannot access rule <arg>’s parameter: <arg2>"
INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg,arg2) ::= "cannot access rule <arg>’s dynamically-scoped attribute: <arg2>"
SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::= "symbol <arg> conflicts with global dynamic scope with same name"
WRITE_TO_READONLY_ATTR(arg,arg2,arg3) ::= "cannot write to read only attribute: $<arg><if(arg2)>.<arg2><endif>"
LABEL_CONFLICTS_WITH_RULE(arg) ::=
"label <arg> conflicts with rule with same name"
LABEL_CONFLICTS_WITH_RULE_NAME(arg) ::= 
"label <arg> conflicts with token with same name"
LABEL_CONFLICTS_WITH_TOKEN(arg) ::= 
"label <arg> conflicts with rule <arg2>'s dynamically-scoped attribute with same name"
LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg, arg2) ::= 
"label <arg> conflicts with rule <arg2>'s return value or parameter with same name"
LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= 
"rule <arg2>'s dynamically-scoped attribute <arg> conflicts with the rule name"
ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= 
"rule <arg2>'s dynamically-scoped attribute <arg> conflicts with <arg2>'s return value or parameter with same name"
LABEL_TYPE_CONFLICT(arg, arg2) ::= 
"label <arg> type mismatch with previous definition: <arg2>"
ARG_RETVAL_CONFLICT(arg, arg2) ::= 
"rule <arg2>'s argument <arg> conflicts a return value with same name"
NONUNIQUE_REF(arg) ::= 
"<arg> is a non-unique reference"
FORWARD_ELEMENT_REF(arg) ::= 
"illegal forward reference: <arg>"
MISSING_RULE_ARGS(arg) ::= 
"missing parameter(s) on rule reference: <arg>"
RULE_HAS_NO_ARGS(arg) ::= 
"rule <arg> has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::= 
"token reference <arg> may not have parameters"
/
NONCHAR_RANGE() ::= 
"range operator can only be used in the lexer"
*/
ILLEGAL_OPTION(arg) ::= 
"illegal option <arg>"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::= 
"rule '+=' list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::= 
"reference to undefined token in rewrite rule: <arg>"
REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::= 
"reference to rewrite element <arg> without reference on left of ->"
UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::= 
"reference to undefined label in rewrite rule: $<arg>"
NO_GRAMMAR_START_RULE (arg) ::= 
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"
EMPTY_COMPLEMENT(arg) ::= <<
<if(arg)>
set complement ~<arg> is empty
<else>
set complement is empty
<endif>
IMPORTED_TOKENS_RULE_EMPTY(arg, arg2) ::= "no lexer rules contributed to <arg> from imported grammar <arg2>"

IMPORT_NAME_CLASH(arg, arg2) ::= "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate <arg2.recognizerName>; import ignored"

AST_OP_IN_ALT_WITH_REWRITE(arg, arg2) ::= "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input, conflictingAlts, paths, disabled, hasPredicateBlockedByAction) ::= <<
  <if(paths)>
  Decision can match input such as "<input>" using multiple alternatives:
  <paths:{  alt <it.alt> via NFA path <it.states; separator="",">
  }>
  <else>
  Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator=" ">
  </else>
  <endif>
  <if(disabled)><
  As a result, alternative(s) <disabled; separator=" "> were disabled for that input<endif><
  <if(hasPredicateBlockedByAction)><
  Semantic predicates were present but were hidden by actions.<endif>
> >>

DANGLING_STATE(danglingAlts, input) ::= <<
  the decision cannot distinguish between alternative(s) <danglingAlts; separator=" "> for input such as "<input>"
> >>

UNREACHABLE_ALTS(alts) ::= <<
  The following alternatives can never be matched: <alts; separator=" ">
> >>

INSUFFICIENT_PREDICATES(upon, altToLocations, hasPredicateBlockedByAction) ::= <<
  Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations.keys:{alt|alt <alt>: <altToLocations.alt}:{loc| line <loc.line>:<loc.column> at <loc.text>; separator=" ">}; separator=" "><
  <if(hasPredicateBlockedByAction)><
  Semantic predicates were present but were hidden by actions.<endif>
> >>

DUPLICATE_SET_ENTRY(arg) ::= "duplicate token type <arg> when collapsing subrule into set"

ANALYSIS_ABORTED(enclosingRule) ::= <<
  ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1. Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.
> >>

RECURSION_OVERFLOW(alt, input, targetRules, callSiteStates) ::= <<
Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion overflow <targetRules,callSiteStates:{t,c|to <t> from <c:[s][s.enclosingRule.name]};separator=", "; separator=" and ">

LEFT_RECURSION(targetRules,alt,callSiteStates) ::= <<
Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:{t,c|to <t> from <c:[s][s.enclosingRule]};separator=", "; separator=" and ">
>>

UNREACHABLE_TOKENS(tokens) ::= <<
The following token definitions can never be matched because prior tokens match the same input: <tokens; separator=" ">
>>

TOKEN_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::= <<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:
<paths:[ alt <it.alt> via NFA path <it.states; separator=", ">]<
>else
Multiple token rules can match input such as "<input>": <conflictingTokens; separator=", "><
>endif
<if(disabled)><
>As a result, token(s) <disabled; separator=", "> were disabled for that input<endif><if(hasPredicateBlockedByAction)><
>Semantic predicates were present but were hidden by actions.<endif>
>>

LEFT_RECURSION_CYCLES(listOfCycles) ::= <<
The following sets of rules are mutually left-recursive <listOfCycles:{c| [<c:[r][r.name]}; separator=", "]}; separator=" and ">
>>

NONREGULAR_DECISION(ruleName,alts) ::= <<
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts; separator=", ">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.
>>

/* 110n for message levels */
warning() ::= "warning"
error() ::= "error"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
jar/org/antlr/tool/templates/messages/languages/en.stg
No license file was found, but licenses were detected in source scan.

/
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*/

```java
import org.antlr.runtime.*;
```

```java
/** Add an adaptor property that knows how to build trees */
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();
public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.treeAdaptor = this.adaptor;}>
}
public function get treeAdaptor():TreeAdaptor {
```

```java
```
return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0:<ASTLabelType> = null;<
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables; */
* These should be turned off if doing rewrites. This must be a "mode" 
* as a rule could have both rewrite and AST within the same alternative
* block.
* /
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = <ASTLabelType>(adaptor.nil());
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<token>.add(<label>);
<<
/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label;elementIndex,hetero) ::= <<
<tokenRefTrack(...>)
<listLabel(elem=label,...)>>
>
/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label;elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<token>.add(<label>);<
>
>>
/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label;elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>>
>
wildcardTrack(label;elementIndex) ::= <<
<super.wildcard(...)>>
>
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label;elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( this.state.backtracking==0 ) <endif>stream_<rule.name>.add(<label>.tree);<
>
>>
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label;elementIndex,args,scope) ::= <<
<ruleRefTrack(...>)
<listLabel(elem=label+".tree",...)>>
>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label;elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<rule>.add(<label>.tree);<
>
>>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label;elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".tree",...)>
// Rewrite

rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= 
<

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
@if(backtracking)
  if ( this.state.backtracking==0 ) {<
    <prevRuleRootRef()>.tree = root_0;
    <rewriteCodeLabels()>
    root_0 = <ASTLabelType>(adaptor.nil());
    <alts:rewriteAlt(); separator="else ">
    <! if tree parser and rewrite=true !>
    <if(TREE_PARSER)>
    <if(rewriteMode)>
      <prevRuleRootRef()>.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
      input.replaceChildren(adaptor.getParent(retval.start),
        adaptor.getChildIndex(retval.start),
        adaptor.getChildIndex(_last),
        retval.tree);
    </if(rewriteMode)>
    </if(TREE_PARSER)
    </if(rewriteMode)>
    <! if parser or tree-parser && rewrite!=true, we need to set result !>
    <if(!TREE_PARSER)>
    <prevRuleRootRef()>.tree = root_0;
    <else>
    <if(!rewriteMode)>
    <prevRuleRootRef()>.tree = root_0;
    </if(!rewriteMode)>
    </if(!TREE_PARSER)
    </if(!TREE_PARSER)>
}}
<bracktracking>

}
rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new
 RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);};
 separator="\n"
>
<referencedTokenListLabels
 :{var stream_<it>:RewriteRule<rewriteElementType>Stream=new
 RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);};
 separator="\n"
>
<referencedRuleLabels
 :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"token
 <it>",<it>!=-null?<it>.tree:null);};
 separator="\n"
>
<referencedRuleListLabels
 :{var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"token <it>",list_<it>);};
 separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::= <<
 // <fileName>:<description>
 if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator="\""> ) { 
   <alt>
 }<referencedElementsDeep:{el | stream_<el>.reset();\n}> 
>>

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::= <<
 // <fileName>:<description>
 while ( <referencedElements:{el | stream_<el>.hasNext}; separator="\""> ) { 

---

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 rewritePositiveClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    if ( !(<referencedElements:{el | stream_<el>.hasNext}; separator="||">) ) {  
        throw new RewriteEarlyExitException();
    } while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {  
        <alt>
    }
>>
    <referencedElements:{el | stream_<el>.reset();<
>}>>

 rewriteAlt(a) ::= <<
    // <a.description>
    <if(a.pred)>
    if (<a.pred>) {
        <a.alt>
    }<
>
    <else>
    {
        <a.alt>
    }<
>
    <endif>
>>

/** For empty rewrites: "r : ... -> ;" */
 rewriteEmptyAlt() ::= "root_0 = null;"

 rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
    // <fileName>:<description>
    {
    var root_._<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.addChild(root_._<enclosingTreeLevel>, root_._<treeLevel>);
    }<\n>
>>

 rewriteElementList(elements) ::= "<elements:rewriteElement()>"
rewriteElement(e) ::= <<
  @@pregen()
  <e,el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>>;
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>));
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...>>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...>>,
root_<treeLevel>));
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>
/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
  <if(hetero)>
  <! new MethodNode(IDLabel, args) !>
  new <hetero>(&(tokenType)<if(args)>, <args; separator=", "><endif>)
  <else>
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator="","><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator="",">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
<<

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
jar/org/antlr/codegen/templates/ActionScript/AST.stg

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*/
group ASTDbg:

/*
   parserMembers() ::= <<
   protected TreeAdaptor adaptor =
       new DebugTreeAdaptor(dbg,new CommonTreeAdaptor());
   public void setTreeAdaptor(TreeAdaptor adaptor) {
       this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
   }
   public TreeAdaptor getTreeAdaptor() {
       return adaptor;
   }
>>
 */

@treeParserHeaderFile.superClassName ::= "ANTLRDebugTreeParser"

@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
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*/

group Perl5 implements ANTLRCore;

/**
 * The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_Parser, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

@includeImports
@if(TREE_Parser)
@endif
@if(backtracking)
@endif
@includeEnd
<@docComment>
<@recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token", filterMode) ::= <<
package <name>;
use base qw( ANTLR::Runtime::Lexer );

use English qw( -no_match_vars ) ;
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

use strict;
use warnings;
sub HIDDEN {


return ANTLR::Runtime::BaseRecognizer->HIDDEN;
}

tokens:{Readonly our $<it.name> => <it.type>;}; separator="\n"
<scopes:{<if(it.isDynamicGlobalScope)>globalAttributeScope(scope=it)<endif> }>
<actions.lexer.members>

sub new {
    Readonly my $usage => '<name> new($input)';
croak $usage if @_ != 2;
my ($class, $input) = @_; 

    my $self = $class->SUPER::new($input);

    return $self;
}

sub get_grammar_file_name {
    return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}> 
<perlTypeInitMap ::= [
"$":"undef",
"@":"()",
"%":"()",
default:"undef"
]

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        token = null;
        channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
        text = null;
        try {
            int m = input.mark();
            backtracking=1; <! means we won't throw slow exception !>
            failed=false;
            mTokens();
            backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
            } else {
                emit();
                return token;
            }
        }
        catch (RecognitionException re) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
}
public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
    {
    if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
    }
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="Object", labelType, members) ::= <<
package <name>;
use base qw ( <@superClassName><superClass><@end> );

use English qw( -no_match_vars );
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

use strict;
use warnings;

Readonly my $token_names => ["\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator="", "
];

<tokens:{Readonly our $<it.name> => <it.type>;<
>sub <it.name> { return $<it.name>; }}; separator="\n">

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>;

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>;

<@members>

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub new {
    my ($class, $input) = @_;

    my $self = $class->SUPER::new($input);
    <if(backtracking)>
    $self->rule_memo({});<
    <endif>

    return $self;
}

sub get_token_names {
    return $token_names;
}
sub get_grammar_file_name {
    return "<fileName>";
}

members

rules; separator="\n"

synpreds:{ p | synpred(p) }

cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new ANTLR::Runtime::DFA<dfa.decisionNumber>-
new($self); }; separator="\n"
cyclicDFAs:cyclicDFA() <! dump tables for all DFA !>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token",
members={<actions.parser.members>}) ::= <<
genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)
>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser",
members={<actions.treeparser.members>}) ::= <<
genericParser(inputStreamType="TreeNodeStream", ...)
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc..., just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
    # <ruleDescriptor.parameterScope:parameterScope(scope=it)>
}
```java
$self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    eval {
        <block>
    }
$self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    if ($EVAL_ERROR) {
        croak $EVAL_ERROR;
    }
}<else>
    <block>
<endif>
}
# $ANTLR end <ruleName>
>>
synpred(name) ::= <<
public final boolean <name>() {
    backtracking++;
    #@start()#
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !failed;
    input.rewind(start);
    #@stop()#
    backtracking--;
    failed=false;
    return success;
}<n>
>>
lexerSynpred(name) ::= <<
<synpred(name)>
>>
ruleMemoization(name) ::= <<
@if(memoize)@
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue>(); }
@endif
>>
/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
```
<if(backtracking)>if (failed) return <ruleReturnValue>();<endif>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (backtracking>0) { failed=true; return <ruleReturnValue>(); }<endif>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
my ($self) = @_;
<if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()> 
<ruleDescriptor.actions.init>
<@preamble()>
eval {
<ruleMemoization(name=ruleName)>
<brick>
<bruleCleanUp()>
<((ruleDescriptor.actions.after):execAction())>
};
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
>

<if(!emptyRule)
<if(actions.(actionScope).rulecatch)
<actions.(actionScope).rulecatch>
<else>
my $exception = $EVAL_ERROR;
if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
$self->report_error($exception);
$self->recover($self->input, $exception);
}
<if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>

<else>
<if(!emptyRule)
<if(actions.(actionScope).rulecatch)
<actions.(actionScope).rulecatch>
<else>
my $exception = $EVAL_ERROR;
if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
$self->report_error($exception);
$self->recover($self->input, $exception);
}
<if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>

</if>
catch(decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <returnType()> retval = new <returnType()>();
  retval.start = input.LT(1);<
  <else>
  <ruleDescriptor.returnScope.attributes:{ a |
    my $<a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
  |}
  <endif>
  <if(memoize)>
  int <ruleDescriptor.name>_StartIndex = input.index();
  <endif>
>>

ruleScopeSetUp() ::= <<
  <ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
  <ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
  <ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
  <ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
  <[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
    :{my $<it.label.text> = undef;}; separator="\n"
>
  <[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
    :{List list_<it.label.text>=null;}; separator="\n"
/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
    # <ruleDescriptor.parameterScope:parameterScope(scope=it)>
    my ($self) = @_;
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleDeclarations()>
    eval {
        <if(nakedBlock)>
            <ruleMemoization(name=ruleName)>
            <lexerRuleLabelDefs()>
            <ruleDescriptor.actions.init>
            <block>
        <else>
            my $_type = $<ruleName>;
            <ruleMemoization(name=ruleName)>
            <lexerRuleLabelDefs()>
            <ruleDescriptor.actions.init>
            <block>
            <ruleCleanUp()>
            $self->set_type($_type);
            <(ruleDescriptor.actions.after):execAction()>
        <endif>
    }
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>}
if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
}
}
# $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
  * that chooses between lexer rules.
  */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
    my ($self) = @_;
    <block>
}
>>

// S U B R U L E S
/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  my $alt<decisionNumber> = <maxAlt>;
  <decls>
  <%@predecision()>
  <%decision>
  <%@prebranch()>
  switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
  }
  <%@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  my $alt<decisionNumber> = <maxAlt>;
  <decls>
  <%@predecision()>
  <%decision>
  <%@postdecision()>
  switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
  }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>::<description>
  <decls>
  <%@prealt()>
  <%alts>
  <%@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>::<description>
  <decls>
  <%@prealt()>
  <%alts>
  <%@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
my $cnt<decisionNumber> = 0;
LOOP<decisionNumber>:
  while (1) {
    my $alt<decisionNumber> = <maxAlt>;
    switch ($alt<decisionNumber>) {
      <alts:altSwitchCase()>
      else { last LOOP<decisionNumber> }
    }
    ++$cnt<decisionNumber>;
  }
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  LOO{decisionNumber}:
    my $alt<decisionNumber> = <maxAlt>;
    switch ($alt<decisionNumber>) {
      <alts:altSwitchCase()>
      else { last LOOP<decisionNumber> }
    }
...>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative 
 * number. A DFA predicts the alternative and then a simple switch 
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> {
  <@prealt()>
  <it>
} <\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  # <fileName>:<description>
  {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()> 
  }
} 
>>

/** What to emit when there is no rewrite. For auto build 
 * mode, does nothing. 
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

//-- ELEMENTS

/** Dump the elements one per line */
element() ::= <<
  <@prematch()>
  <it.el><\n>
} <<

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)>
  $<label> = (<labelType>)
} <\n>
} else {
  <ruleBacktrackFailure()>
  my $mse =
    ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
  <@mismatchedSetException()>
  <if(LEXER)>
    $self->recover($mse);
  <else>
    $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
  <endif>
  croak $mse;
}</
>

matchSetAndListLabel(s, label, elementIndex, postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string, label) ::= <<
  <if(label)>
  int <label>Start = getCharIndex();
  $self->match(<string>); <checkRuleBacktrackFailure()>
  <labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
  Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
  <else>
  $self->match(<string>); <checkRuleBacktrackFailure()><
  <endif>
  wildcard(label, elementIndex) ::= <<
  <if(label)>
  <label> = $self->input->LA(1);<
  <endif>
  matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label, elementIndex) ::= <<
  <wildcard(…)><
  <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = $self->input->LA(1);<
  <endif>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values.
*/
ruleRef(rule, label, elementIndex, args, scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>_<elementIndex>);
;if(label)
$<label> = $self-><rule.name>({args; separator=" ");
}else
$self-><rule.name>({args; separator=" ");
endif
$self->[_fsp]--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
* 
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
;if(label)
int <label>Start<elementIndex> = getCharIndex();
$self->m_<rule>({args; separator=" "); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, 
<label>Start<elementIndex>, getCharIndex()-1);
}else
$self->m_<rule.name>({args; separator=" "); <checkRuleBacktrackFailure()>
endif
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  if(label)
    int <label>Start<elementIndex> = getCharIndex();
  match(EOF); <checkRuleBacktrackFailure()>
  <labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
    <label>Start<elementIndex>, getCharIndex()-1);
  <else>
    match(EOF); <checkRuleBacktrackFailure()>
  <endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
      match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
      <children:element()>
      match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    }
  <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
  <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description) ::= <<
  if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
  }
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  my $LA<decisionNumber>_<$stateNumber> = $self->input->LA(<k>);<\n>
/** Same as a normal DFA state except that we don't examine lookahead
   * for the bypass alternative. It delays error detection but this
   * is faster, smaller, and more what people expect. For (X)? people
   * expect "if ( LA(1)==X ) match(X);" and that's it.
   */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<

/** A DFA state that is actually the loopback decision of a closure
   * loop. If end-of-token (EOT) predicts any of the targets then it
   * should act like a default clause (i.e., no error can be generated).
   * This is used only in the lexer so that for ('a')* on the end of a rule
   * anything other than 'a' predicts exiting.
   */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>;;"
/** A simple edge with an expression. If the expression is satisfied, * enter to the target state. To handle gated productions, we may * have to evaluate some predicates for this edge. */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (labelExpr) if(predicates)&& (predicates) endif ) {
  <targetState>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator * decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n"> else {
    <if(eotPredictsAlt)>
      $alt<decisionNumber> = <eotPredictsAlt>;
    <else>
      <ruleBacktrackFailure()>
      my $nvae = ANTLR::Runtime::NoViableAltException->new("<description>", <decisionNumber>, <stateNumber>, $self->input);
      #@noViableAltException() croak $nvae;\n    <endif>
  }<\n>
}<\n>
>>
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n"> }<\n>
>>
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n"> <if(eotPredictsAlt)>
    else { $alt<decisionNumber> = <eotPredictsAlt> }<\n>
}<\n>
>>
```java
dfaEdgeSwitch(labels, targetState) ::= <<
    case [labels:{ <it> }; separator=", "] { <targetState> }
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description) ::= <<
    alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
    static final String DFA<dfa.decisionNumber>_eotS = 
        "<dfa.javaCompressedEOT; wrap="\n        ">
    static final String DFA<dfa.decisionNumber>_eofS = 
        "<dfa.javaCompressedEOF; wrap="\n        ">
    static final String DFA<dfa.decisionNumber>_minS = 
        "<dfa.javaCompressedMin; wrap="\n        ">
    static final String DFA<dfa.decisionNumber>_maxS = 
        "<dfa.javaCompressedMax; wrap="\n        ">
    static final String DFA<dfa.decisionNumber>_acceptS = 
        "<dfa.javaCompressedAccept; wrap="\n        ">
    static final String DFA<dfa.decisionNumber>_specialS = 
        "<dfa.javaCompressedSpecial; wrap="\n        ">
    static final String[] DFA<dfa.decisionNumber>_transitionS = {
        <dfa.javaCompressedTransition:{s|"<s; wrap="\n        ">

    static final short[] DFA<dfa.decisionNumber>_eot =
        DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
    static final short[] DFA<dfa.decisionNumber>_eof =
        DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
    static final char[] DFA<dfa.decisionNumber>_min =
        DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
    static final char[] DFA<dfa.decisionNumber>_max =
        DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
    static final short[] DFA<dfa.decisionNumber>_accept =
```
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;
static {
    int numStates = DFA<dfa.decisionNumber>_transitionS.length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i<numStates; i++) {
        DFA<dfa.decisionNumber>_transition[i] =
        DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}
}
class DFA<dfa.decisionNumber> extends DFA {

    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }

    public String getDescription() {
        return "<dfa.description>";
    }
}@errorMethod()
@if(dfa.specialStateSTs)
    public int specialStateTransition(int s, IntStream input) throws NoViableAltException {
        int _s = s;
        switch ( s ) {
            <dfa.specialStateSTs:state |
            case <i0> : <! compressed special state numbers 0..n-1 !>
                <state> }; separator="\n"
        }
    }<if(backtracking>)
        if (backtracking>0) { failed=true; return -1; }
    <endif>
    NoViableAltException nvae =
        new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
        error(nvae);
        throw nvae;
    }<un>
    <endif>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
  my $input = $self->input;
  my $LA<decisionNumber>_<stateNumber> = $input->LA(1);
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
  my $index<decisionNumber>_<stateNumber> = $input->index();
  $input->rewind();
  <endif>
  s = -1;
  <edges; separator="nels">
  <if(semPredState)> <! return input cursor to state before we rewound !>
  input.seek($index<decisionNumber>_<stateNumber>);
  <endif>
  if ( s>=0 ) return s;
  break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
  s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "<pred>"

evalSynPredicate(pred, description) ::= "<pred>()"
lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
($LA<decisionNumber>_<stateNumber> ge <lower> && $LA<decisionNumber>_<stateNumber> le <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "($self->input->LA(<k>) ge <lower> && $self->input->LA(<k>) le <upper>)"

setTest(ranges) ::= "<ranges; separator=" || ">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">}
protected Stack <scope.name>_stack = new Stack();\n<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">}
protected Stack <scope.name>_stack = new Stack();\n<endif>
>>

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>
/** Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "undef". */
initValue(typeName) ::= <<
<if(typeName)>
<perlTypeInitMap.(typeName)>
<else>
undef
<endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its start/stop tokens, tree stuff, attributes, ... Leave a hole for subgroups to stick in members. */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>
parameterAttributeRef(attr) ::= "$<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "$<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<<
  <if(negIndex)>
    ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
  <else>
    <if(index)>
      ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
    <else>
      ((<scope>_scope)<scope>_stack.peek()).<attr.name>
    </endif>
  </endif>
>>>;

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<<
  <if(negIndex)>
    ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>; 
  <else>
    <if(index)>
      ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>; 
    <else>
      ((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>; 
    </endif>
  </endif>
>>>;

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.size()>0 && function::name.equals("foo")}? 
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<<
  <if(referencedRule.hasMultipleReturnValues)>
    "$<scope>.<attr.name>
  <else>
    "$<scope>
  </endif>
>>>;

returnAttributeRef(ruleDescriptor,attr) ::= <<<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name>
  <else>
    "$<attr.name>
  </endif>
>>>;

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.size()>0 && function::name.equals("foo")}? 
*/
return SetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> =<expr>;
  <else>
    $<attr.name> =<expr>;
  <endif>
<<

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "$<scope>->get_text()"
tokenLabelPropertyRef_type(scope, attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope, attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope, attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope, attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope, attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>._tree"

ruleLabelPropertyRef_start(scope, attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope, attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope, attr) ::= "((<ASTLabelType>)<scope>.tree)"
ruleLabelPropertyRef_text(scope, attr) ::= <<
  <if(TREE_PARSER)>
    input.getTokenStream().toString(
      input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
      input.getTreeAdaptor().getTokenStopIndex(<scope>.start))
  <else>
    input.toString(<scope>.start, <scope>.stop)
  <endif>
<<

ruleLabelPropertyRef_st(scope, attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope, attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= "<<
<if(TREE_PARSER)>
  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
  input.toString(retval.start,input.LT(-1))
<endif>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$self->{channel}"  
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action */
execAction(action) ::= "<<
  <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
      if ( <actions.(actionScope).synpredgate> ) { 
        <action>
      }
    <else>
      if ( backtracking==0 ) { 
        <action>
      }
    <endif>
  <endif>
// M I S C (properties, etc...)

bitset(name, words64) ::= <<
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [ <words64:{'<it>'};separator=", "> ] });<\n>
>>

codeFileExtension() ::= ".pm"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/Perl5/Perl5.stg
No license file was found, but licenses were detected in source scan.

/*
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
group C implements ANTLRCore;

cTypeInitMap ::= [
"int"     : "0", // Integers start out being 0
"long"    : "0", // Longs start out being 0
"float"   : "0.0F", // Floats start out being 0
"double"  : "0.0D", // Doubles start out being 0
"ANTLR3_BOOLEAN" : "ANTLR3_FALSE", // Booleans start out being Antlr C for false
"byte"    : "0", // Bytes start out being 0
"short"   : "0", // Shorts start out being 0
"char"    : "0", // Chars start out being 0
default   : "NULL" // Anything other than an atomic type (above) is a NULL (probably NULL pointer).
]

leadIn(type) ::= <<
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) :=

/**
 * This is what the grammar programmer asked us to put at the top of every file.
 */
#include    "<name>.h"

/* -----------------------------
 * Include the ANTLR3 generated header file.
 */
#include   "<name>.h"
MACROS that hide the C interface implementations from the
* generated code, which makes it a little more understandable to the human eye.
* I am very much against using C pre-processor macros for function calls and bits
* of code as you cannot see what is happening when single stepping in debuggers
* and so on. The exception (in my book at least) is for generated code, where you are
* not maintaining it, but may wish to read and understand it. If you single step it, you know that input()
* hides some indirect calls, but is always referring to the input stream. This is
* probably more readable than ctx->input->istream->input(narfe0->blarg) and allows me to rejig
* the runtime interfaces without changing the generated code too often, without
* confusing the reader of the generated output, who may not wish to know the gory
* details of the interface inheritance.
*/
#define CTX ctx

/* Aids in accessing scopes for grammar programmers
*/
#undef SCOPE_TYPE
#undef SCOPE_STACK
#undef SCOPE_TOP
#define SCOPE_TYPE(scope) p<name>_##scope##_SCOPE
#define SCOPE_STACK(scope) p<name>_##scope##Stack
#define SCOPE_TOP(scope) ctx->p<name>_##scope##Top
#define SCOPE_SIZE(scope) (ctx->SCOPE_STACK(scope)->size(ctx->SCOPE_STACK(scope)))
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))

/* Macros for accessing things in a lexer
*/
/*
#define LEXER    ctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATE LEXER->state
#define TOKSOURCE LEXER->tokSource
#define GETCHARINDEX LEXER->getCharIndex()
#define GETLINE LEXER->getLine()
#define GETTEXT LEXER->getText()
#define GETCHARPOSITIONINLINE LEXER->getCharPositionInLine()
#define EMIT LEXER->emitter()
#define EMITNEW LEXER->emitNew()
#define MATCHC LEXER->matchc()
#define MATCHS LEXER->matchs()
#define MATCHRANGE LEXER->matchrange()
#define MEMOIZE LEXER->memoize()
#define HAVEPARSEDRULE LEXER->haveParsedRule()
#define CONSTRUCTEX LEXER->constructEx()
#define CONSUME LEXER->consume()
#define LA LEXER->lambda()
#define HASEXCEPTION LEXER->hasException()
#define EXCEPTION LEXER->exception()
#define LRECOVER LEXER->lrepair()
#define MARK LEXER->mark()
#define REWIND LEXER->rewind()
#define REWINDLAST LEXER->rewindLast()
#define BACKTRACKING LEXER->backtracking()
#define MATCHANY LEXER->matchany()
#define INDEX LEXER->index()
#define SEEK LEXER->seek()
#define PUSHSTREAM LEXER->pushStream()
#define POPSTREAM LEXER->popStream()
#define SETTEXT LEXER->setText()
#define SETTEXT8 LEXER->setText8()
*/

#define LEXER    ctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATE LEXER->state
#define TOKSOURCE LEXER->tokSource
#define GETCHARINDEX LEXER->getCharIndex()
#define GETLINE LEXER->getLine()
#define GETTEXT LEXER->getText()
#define GETCHARPOSITIONINLINE LEXER->getCharPositionInLine()
#define EMIT LEXER->emitter()
#define EMITNEW LEXER->emitNew()
#define MATCHC(c) LEXER->matchc(LEXER, c)
#define MATCHS(s) LEXER->matchs(LEXER, s)
#define MATCHRANGE(c1,c2) LEXER->matchRange(LEXER, c1, c2)
#define MATCHANY() LEXER->matchAny(LEXER)
#define LTOKEN LEXSTATE->token
#define HASFAILED() (LEXSTATE->failed == ANTLR3_TRUE)
#define BACKTRACKING LEXSTATE->backtracking
#define FAILEDFLAG LEXSTATE->failed
#define INPUT LEXER->input
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define EOF_TOKEN &(LEXSTATE->tokSource->eofToken)
#define EXCPLEXSTATE->exception
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER() LEXER->recover(LEXER)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define MEMOIZE(r,s) RECOGNIZER->memoize(RECOGNIZER, r, s)
#define HAVEPARSERULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

/* If we have been told we can rely on the standard 8 bit or 16 bit input stream, then we can define our macros to use the direct pointers in the input object, which is much faster than indirect calls. This is really only significant to lexers with a lot of fragment rules (which do not place LA(1) in a temporary at the moment) and even then only if there is a lot of input (order of say 1M or so).
*/
#if defined(ANTLR3_INLINE_INPUT_ASCII) || defined(ANTLR3_INLINE_INPUT_UTF16)
  #ifdef ANTLR3_INLINE_INPUT_ASCII
    /* 8 bit "ASCII" (actually any 8 bit character set) */
    # define NEXTCHAR((pANTLR3_UINT8)(INPUT->nextChar))
  #else
    /* UTF16 encoding */
  #endif
#endif
# define DATAP((pANTLR3_UINT8)(INPUT->data))

# else

# define NEXTCHAR((pANTLR3_UINT16)(INPUT->nextChar))
# define DATAP((pANTLR3_UINT16)(INPUT->data))

# endif

# define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF : (ANTLR3_UCHAR)(* (NEXTCHAR + n - 1)))
# define CONSUME(){
  if (NEXTCHAR < (DATAP + INPUT->sizeBuf))
  {
    INPUT->charPositionInLine++;
    if ( (ANTLR3_UCHAR)(*NEXTCHAR) == INPUT->newlineChar)
    {
      INPUT->line++;
      INPUT->charPositionInLine = 0;
      INPUT->currentLine = (void *)(NEXTCHAR + 1);
    }
    INPUT->nextChar = (void *)(NEXTCHAR + 1);
  }
}

#else

// Pick up the input character by calling the input stream implementation.
//
#define CONSUME()INPUT->istream->consume(INPUT->istream)
#define LA(n)INPUT->istream->_LA(INPUT->istream, n)

#endif

<endif>

<if(PARSER)>
/* Macros for accessing things in the parser */
*/

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef MEMOIZE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#defined MATCHT
#defined MATCHANYT
#defined FOLLOWSTACK
#defined FOLLOWPUSH
#defined FOLLOWPOP
#defined PRECOVER
#defined PREREPORTERROR
#defined LA
#defined LT
#defined CONSTRUCTEX
#defined CONSUME
#defined MARK
#defined REWIND
#defined REWINDLAST
#defined PERRORRECOVERY
#defined HASFAILED
#defined FAILEDFLAG
#defined RECOVERFROMMISMATCHEDSET
#defined RECOVERFROMMISMATCHDELEMENT
#defined INDEX
#defined ADAPTOR
#defined SEEK
#defined RULEMEMO
#defined DBG

#define PARSER ctx->pParser
#define RECOGNIZER PARSER->rec
#define PSRSTATE PARSER->state
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri, si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUT PARSER->tstream
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(INPUT->istream)
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER(RECOGNIZER) RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR(RECOGNIZER) RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) INPUT->istream->LA(ISTREAM, n)
#define LT(n) INPUT->LT(INPUT, n)
#define CONSTRUCTEX(RECOGNIZER) RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME(RECOGNIZER) ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define PERRORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR ctx->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser */

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSERULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef BACKTRACKING
#undef ADAPTOR
#undef RULEMEMO
#undef SEEK
#undef INDEX
#undef DBG

#define PARSERctx->pTreeParser
#define RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#define HAVEPARSERULE(r)RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define INPUTPARSER->ctnstream
#define ISTREAMINPUT->tostream->istream
#define STRSTREAMINPUT->tostream
#define HASEXCEPTION()((PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTIONPSRSTATE->exception
#define MATCHT(t, fs)RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT()RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x)FOLLOWSTACK->push(FOLLOWSTACK, ((void *)(&(x))), NULL)
#define FOLLOWPOP()FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER()RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR()RECOGNIZER->reportError(RECOGNIZER)
#define LA(n)ISTREAM->La(ISTREAM, n)
#define LT(n)INPUT->tostream->Lt(INPUT->tostream, n)
#define CONSTRUCTEX()RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME()ISTREAM->consume(ISTREAM)
#define MARK()ISTREAM->mark(ISTREAM)
#define REWIND(m)ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST()ISTREAM->rewindLast(ISTREAM)
#define PERRORRECOVERYPSRSTATE->errorRecovery
#define FAILEDPSRSTATE->failed
#define HASFAILED()((FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKINGPSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s)RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDELEMENT(e)RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR INPUT->adaptor
#define RULEMEMOINPUT->ruleMemo
#define SEEK(n)ISTREAM->seek(ISTREAM, n)
#define INDEX()ISTREAM->index(ISTREAM)
#define DBGRECOGNIZER->debugger

<endif>

#define TOKTEXT(tok, txt)tok, (pANTLR3_UINT8)txt
/* The 4 tokens defined below may well clash with your own #defines or token types. If so
* then for the present you must use different names for your defines as these are hard coded
* in the code generator. It would be better not to use such names internally, and maybe
* we can change this in a forthcoming release. I deliberately do not #undef these
* here as this will at least give you a redefined error somewhere if they clash.
*/
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

/*===============================================================================
* Functions to create and destroy scopes. First come the rule scopes, followed
* by the global declared scopes.
*/
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>
<endif>}> 
<recognizer.scopes:{<if(it.isDynamicGlobalScope)>
<globalAttributeScopeFuncDecl(scope=it)> 
<globalAttributeScopeFuncs(scope=it)> 
<endif>}> 

/*===============================================================================
* Start of recognizer
*/
<recognizer> 

/* End of code
*/

>>

headerFileExtension() ::= ".h"

headerFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::= <<
<leadIn("C header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>
* The lexer <mainName()>
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
*<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
* 
* <endif>
* The methods in p<name> are as follows:
* 
* <rules: {r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)> p<name>-><r.ruleDescriptor.name>(p<name>)<endif> }; separator="\n * ">
* 
* The return type for any particular rule is of course determined by the source
* grammar file.
*/
#endif _<name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =============================================================================
* Standard antlr3 C runtime definitions
*/
#include \antlr3.h>
/* End of standard antlr 3 runtime definitions
*/
#include \antlr3.h>
<actions.(actionScope).includes>
#ifndef __cplusplus
extern "C" { 

// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegators and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
// typedef struct <name>_Ctx_struct <name>, * p<name>;

<if(recognizer.grammar.delegates)
#include \antlr3.h>
<recognizer.grammar.delegates: {g|#include \<<g.recognizerName>.h>}; separator="\n">
</if>

<actions.(actionScope).header>
#ifndefANTLR3_WINDOWS
// Disable: Unreferenced parameter,- Rules with parameters that are not used
constant conditional,- ANTLR realizes that a prediction is always true (synpred usually)
initialized but unused variable- tree rewrite variables declared but not needed
Unreferenced local variable- lexer rule declares but does not always use _type
potentially unitialized variable used- retval always returned from a rule
//unreferenced local function has been removed- usually getTokenNames or freeScope, they can go without warnigns

// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.

#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#endif

#include "<g.recognizerName>.h">; separator="n"

/** Context tracking structure for <mainName()> */
struct <name>_Ctx_struct
{
  /** Built in ANTLR3 context tracker contains all the generic elements
   * required for context tracking.
   */
};

// Include delegator definition header files
//
pANTLR3_PARSER pParser;
@endif
@endif

@if(Lexer)
    pANTLR3Lexer pLexer;
@endif

@if(TreeParser)
    pANTLR3_TREE_PARSER pTreeParser;
@endif

@if(recognizer.grammar.delegates)
    recognizer.grammar.delegates:
        {g|p<g.recognizerName><g:delegateName()>;}; separator="\n"
@endif
@if(recognizer.grammar.delegators)
    recognizer.grammar.delegators:
        {g|p<g.recognizerName><g:delegateName()>;}; separator="\n"
@endif

@scopes:{@if(it.isDynamicGlobalScope)
    @globalAttributeScopeDef(scope=it)
@endif} ; separator="\n"

@rules: {r |@if(r.ruleDescriptor.ruleScope)
    @ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)
@endif}
@if(Lexer)
    @rules:{r |@if(!r.ruleDescriptor.isSynPred)
        @headerReturnType(ruleDescriptor=r.ruleDescriptor)
        (*m<r.ruleDescriptor.name>)	(struct <name>_Ctx_struct * ctx<@if(r.ruleDescriptor.parameterScope)>
            ,
            <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);<@endif}; separator="\n";
@endif
@if(!Lexer)
    @rules:{r |@headerReturnType(ruleDescriptor=r.ruleDescriptor)
        (*<r.ruleDescriptor.name>)	(struct
            <name>_Ctx_struct * ctx<@if(r.ruleDescriptor.parameterScope)>
            ,
            <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";
@endif

<!--[generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !]>!
@Delegated rules

@recognizer.grammar.delegatedRules:{ruleDescriptor}
    @headerReturnType(ruleDescriptor=r.ruleDescriptor)
    (*<ruleDescriptor.name>)(struct <name>_Ctx_struct * ctx<@if(ruleDescriptor.parameterScope)>
        ,
        <endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";
@endif
@endif

const char * (*getGrammarFileName)();
void (*free)(struct <name>_Ctx_struct * ctx);
@endmembers
@endend

actions.(actionScope).context

}
// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.

ANTLR3_API p<name> <name>New         (<inputType()> instream<recognizer.grammar.delegators:{g|,
p<g.recognizerName> <g:delegateName()> }>);
ANTLR3_API p<name> <name>NewSSD     (<inputType()> instream,
pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g|, p<g.recognizerName>
<g:delegateName()> }>);
<if(!recognizer.grammar.grammarIsRoot)>
extern pANTLR3_UINT8   <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 * {
 *  *
 *  * Antlr will define EOF, but we can't use that as it is too common in
 *  * in C header files and that would be confusing. There is no way to filter this out at the moment
 *  * so we just undef it here for now. That isn't the value we get back from C recognizers
 *  * anyway. We are looking for ANTLR3_TOKEN_EOF.
 *  */
#ifndef EOF
#ifndef Tokens
#endif
<tokens:{#define <it.name> <it.type>}; separator="\n">}
#endif
#ifndef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/*! End of token definitions for <name>
 * ==================================================================================================================================
 */
/*! */
#ifndef __cplusplus
}
#endif

#ifdef __cplusplus
}
inputType() ::= <if(LEXER)>
      pANTLR3_INPUT_STREAM
   <endif>
   <if(PARSER)>
      pANTLR3_COMMON_TOKEN_STREAM
   <endif>
   <if(TREE_PARSER)>
      pANTLR3_COMMON_TREE_NODE_STREAM
   <endif>
>
grammarType() ::= <if(PARSER)>
      parser
   <endif>
   <if(LEXER)>
      lexer
   <endif>
   <if(TREE_PARSER)>
      tree parser
   <endif>
>
mainName() ::= <if(PARSER)>
      <name>
   <endif>
   <if(LEXER)>
      <name>
   <endif>
   <if(TREE_PARSER)>
      <name>
   <endif>
>
headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>

headerReturnType(ruleDescriptor) ::= <if(LEXER)>
      <if(!r.ruleDescriptor.isSynPred)>
      void
   <else>
      <ruleDescriptor:returnType()>
   </if>
// Produce the lexer output
//
lexer( grammar,
name,
tokens,
scopes,
rules,
numRules,
labelType="pANTLR3_COMMON_TOKEN",
filterMode,
superClass) ::= <<

<if(filterMode)>
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
* this is a filter mode lexer.
*/
static pANTLR3_COMMON_TOKEN <name>NextToken   (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
* However, I assume that the C compilers/optimizers are smart enough to work this one out
* these days - Jim
*/
#undef MEMOIZE
#define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPARSEDRULE
#define HAVEPARSEDRULE(r) if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER, r) }
<endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
*/
<r | static ANTLR3 INLINE <headerReturnType ruleDescriptor=r.ruleDescriptor>><if(r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name>    (p<name>ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>); separator="n";>
static void <name>Free(p<name> ctx);

/* =========================================================================
* Lexer matching rules end.*/
static void Free (p<name> ctx)
{
    if(memoize)
    {
        if(RULEMEMO != NULL)
            RULEMEMO->free(RULEMEMO);
        RULEMEMO = NULL;
    }
    <endif>
    <if(grammar.directDelegates)>
        // Free the lexers that we delegated to
        // functions to. NULL the state so we only free it once.
        //
    <grammar.directDelegates:
        {g|ctx-><g:delegateName()>->pLexer->rec->state = NULL;
         ctx-><g:delegateName()>->free(ctx-><g:delegateName()>;}; separator="\n">
    <endif>
    LEXER->free(LEXER);
    ANTLR3_FREE(ctx);
}

/** \brief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code. */
static const char * getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new lexer called <name> */
* 
* \param[in] instream Pointer to an initialized input stream
ANTLR3_API p<name> <name>New
(<inputType()> instream<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
    // See if we can create a new lexer with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);
}

/** \brief Create a new lexer called <name>
 *
 *  \param[in]    instream Pointer to an initialized input stream
 *  \param[state] state Previously created shared recognizer stat
 *\return
 *     - Success p<name> initialized for the lex start
 *     - Fail NULL
 */
ANTLR3_API p<name> <name>NewSSD
(pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
    p<name> ctx; // Context structure we will build and return

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if  (ctx == NULL)
    {
        // Failed to allocate memory for lexer context
        return  NULL;
    }

    /* -------------------------------------------------------------------
    * Memory for basic structure is allocated, now to fill in
    * in base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 lexer function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here so you can get a sense
    * of what goes where.
    */

    /* Create a base lexer, using the supplied input stream
    */
    ctx->pLexer	= antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);
/* Check that we allocated the memory correctly */
if (ctx->pLexer == NULL)
{
ANTLR3_FREE(ctx);
return NULL;
}

<if(memoize)>
// Create a LIST for recording rule memos.
//
ctx->pLexer->rec->ruleMemo = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules */
<endif>

/* Install the implementation of our <name> interface */
<rules: {r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> = m<r.ruleDescriptor.name>;<endif>}; separator="\n";>

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE */
* it will call mTokens() in this generated code, and will pass it the ctx
* pointer of this lexer, not the context of the base lexer, so store that now.
* /
ctx->pLexer->ctx = ctx;

/**Install the token matching function */
ctx->pLexer->mTokens = (void (*)(void *)) (mTokens);

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates: 
{g|ctx-><g:delegateName>() = <g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state, ctx<grammar.delegators:{g|, <g:delegateName()}>);}; separator="\n"}
<endif>

<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators: 
{g|ctx-><g:delegateName>() = <g:delegateName>();}; separator="\n"}
/* We have filter mode turned on, so install the filtering nextToken function */
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;

/* Return the newly built lexer to the caller */
return ctx;

/* DFA tables for the lexer */
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* End of DFA tables for the lexer */

/* Functions to match the lexer grammar defined tokens from the input stream */

/* Lexer matching rules end. */

/* Lexer syntactic predicates */

/* Lexer syntactic predicates end. */

/* End of Lexer code */
filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
* for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
* a token and then try again. BACKTRACKING needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at BACKTRACKING==1.
*/
static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
    pANTLR3_LEXER   lexer;
pANTLR3_RECOGNIZER_SHARED_STATE state;

    lexer   = (pANTLR3_LEXER)(toksource->super);
    state= lexer->rec->state;

    /* Get rid of any previous token (token factory takes care of
    * any deallocation when this token is finally used up.
    */
    /* state->token   = NULL;
    state->error   = ANTLR3_FALSE; /* Start out without an exception*/
    state->failed  = ANTLR3_FALSE;

    /* Record the start of the token in our input stream.
    */
    state->tokenStartCharIndex	= lexer->input->istream->index(lexer->input->istream);
    state->tokenStartCharPositionInLine	= lexer->input->getCharPositionInLine(lexer->input);
    state->tokenStartLine		= lexer->input->getLine(lexer->input);
    state->text		= NULL;

    /* Now call the matching rules and see if we can generate a new token
    */
    for(;;)
    {
        if (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
        {
            /* Reached the end of the stream, nothing more to do.
            */
            pANTLR3_COMMON_TOKEN   teof = &(toksource->eofToken);

            teof->setStartIndex (teof, lexer->getCharIndex(lexer));
            teof->setStopIndex  (teof, lexer->getCharIndex(lexer));
            teof->setLine(teof, lexer->getLine(lexer));
            return teof;
        }
        else
        {
            /* Call the matching rules and see if we can generate a new token.
            */
            teof = (&(tokenizer->nextToken(lexer)));

            teof->setStartIndex (teof, lexer->getCharIndex(lexer));
            teof->setStopIndex  (teof, lexer->getCharIndex(lexer));
            teof->setLine(teof, lexer->getLine(lexer));
        }
    }
    return NULL;
}>>
return teof;

}

state->token= NULL;
state->error= ANTLR3_FALSE; /* Start out without an exception*/
{
ANTLR3_MARKER m;

m= lexer->input->istream->mark(lexer->input->istream);
state->backtracking= 1;/* No exceptions */
state->failed= ANTLR3_FALSE;

/* Call the generated lexer, see if it can get a new token together. */
lexer->mTokens(lexer->ctx);
state->backtracking= 0;

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>
if(state->failed == ANTLR3_TRUE)
{
 lexer->input->istream->rewind(lexer->input->istream, m);
 lexer->input->istream->consume(lexer->input->istream); <! advance one char and try again !>
}
else
{
 lexer->emit(lexer); /* Assemble the token and emit it to the stream */
 return state->token;
}
}
}

>>

filteringActionGate() ::= "BACKTRACKING==1"

/** How to generate a parser */
genericParser( grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 rules,
 numRules,
 bitsets,
 inputStreamType,
superClass,
ASTLabelType="pANTLR3_BASE_TREE",
labelType,
members,
rewriteElementType
)) ::= <<

@if(grammar.grammarIsRoot)>
/** rief Table of all token names in symbolic order, mainly used for
* error reporting.
*/
pANTLR3_UINT8 <name>TokenNames[length(tokenNames)+4] = {
   (pANTLR3_UINT8) "\invalid",
   (pANTLR3_UINT8) "\EOR",
   (pANTLR3_UINT8) "\DOWN",
   (pANTLR3_UINT8) "\UP",
   <tokenNames:{(pANTLR3_UINT8) <it>}; separator="",ln>>;
};
@if(!LEXER)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
@if(recognizer.grammar.delegatedRules)>
// Delegated rules
//@members
//@end

// Forward declare the locally static matching functions we have generated.
//@rules:{r | static <headerReturnType(ruleDescriptor=r.ruleDescriptor)><r.ruleDescriptor.name> (p<name> ctx/if(r.ruleDescriptor.parameterScope), endif)<r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
static void <name>Free(p<name> ctx);
@if(!LEXER)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
@if(recognizer.grammar.delegatedRules)>
// Delegated rules
//@rules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)> <ruleDescriptor.name>(p<name> ctx/if(ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
@end

/** For use in tree output where we are accumulating rule labels via label += ruleRef
* we need a function that knows how to free a return scope when the list is destroyed.
* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
static void ANTLR3_CDECL freeScope(void * scope)
{
    ANTLR3_FREE(scope);
}

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
static const char * getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new <name> parser and return a context for it.
* 
* \param[in] instream Pointer to an input stream interface.
* 
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name> <name>New(<inputStreamType> instream)
{
    // See if we can create a new parser with the standard constructor
    // return <name>NewSSD(instream, NULL);
}

/** \brief Create a new <name> parser and return a context for it.
* 
* \param[in] instream Pointer to an input stream interface.
* 
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name> <name>NewSSD(<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE state)
{
    p<name> ctx; /* Context structure we will build and return */

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if(ctx == NULL)
    {
        // Failed to allocate memory for parser context
    }
///
return NULL;
}

/* -------------------------------------------------------------------
* Memory for basic structure is allocated, now to fill in
* the base ANTLR3 structures. We initialize the function pointers
* for the standard ANTLR3 parser function set, but upon return
* from here, the programmer may set the pointers to provide custom
* implementations of each function.
*
* We don't use the macros defined in <name>.h here, in order that you can get a sense
* of what goes where.
*/

<if(PARSER)>
/* Create a base parser/recognizer, using the supplied token stream
*/
ctx->pParser    = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
<endif>
<if(TREE_PARSER)>
/* Create a base Tree parser/recognizer, using the supplied tree node stream
*/
ctx->pTreeParser= antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
<endif>

/* Install the implementation of our <name> interface
*/
<rules:{r | ctx-><r.ruleDescriptor.name>= <r.ruleDescriptor.name>;} separator="\n">;
<if(grammar.delegatedRules)>
// Install the delegated methods so that they appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor | ctx-><ruleDescriptor.name>= <ruleDescriptor.name>;} separator="\n">;
<endif>

ctx->free= <name>Free;
ctx->getGrammarFileName= getGrammarFileName;

/* Install the scope pushing methods.
*/
<rules: {r |<if(r.ruleDescriptor.ruleScope)}>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)<<\n>
<endif}>;
<recognizer.scopes:{<if(it.isDynamicGlobalScope)}>
<globalAttributeScope(scope=it)<<\n>
<endif}>;
```c

/*@apifuncs*/

/*@end*/
@if(grammar.directDelegates) // Initialize the parsers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE, ctx<grammar.delegators:{g|, <g:delegateName()> }>; separator="\n"> <endif>
<if(grammar.delegators) // Install the pointers back to parsers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()>= <g:delegateName()>;}; separator="\n"> <endif>
<actions.parser.apifuncs>
<actions.treeparser.apifuncs>
@if(memoize) // Create a LIST for recording rule memos.
/* RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */</grammar.grammarIsRoot>)
/* Install the token table */
PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

/*@debugStuff()*/

/* Return the newly built parser to the caller */
return ctx;
}

/** Free the parser resources */
static void <name>Free(p<name> ctx)
{
    /* Free any scope memory */
    <rules: {r |<if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n> <endif> } >
    <recognizer.scopes: { <if(it.isDynamicGlobalScope)><globalAttributeScopeFree(scope=it)><\n> <endif> } >
```c
//@cleanup
//@end
@if(grammar.directDelegates)
// Free the parsers that we delegated to
// functions to NULL the state so we only free it once.
//@
@if(grammar.directDelegates:
    {g| ctx-><g:delegateName()>::pParser->rec->state = NULL;
     ctx-><g:delegateName()>::free(ctx-><g:delegateName()::}); separator="\n"}
@endif
@if(memoize)
@if(grammar.grammarIsRoot)
    if (RULEMEMO != NULL)
    {
        RULEMEMO->free(RULEMEMO);
        RULEMEMO = NULL;
    }
@endif
@endif
//@
//@
@if(TREE_PARSER)
    ctx->pTreeParser->free(ctx->pTreeParser);
#else
    ctx->pParser->free(ctx->pParser);
@endif
ANTLR3_FREE(ctx);
/* Everything is released, so we can return */
*/
return;
}

/** Return token names used by this <grammarType()> */
* 
* The returned pointer is used as an index into the token names table (using the token
* number as the index).
* 
* Return Pointer to first char * in the table.
* */
static pANTLR3_UINT8 *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}
//@members
```
Declare the bitsets

```c
<bitsets:bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> },
               words64=it.bits)>
```

If cyclicDFAs

```c
/* =========================================================================
* DFA tables for the parser
*/
<if(cyclicDFAs)>
/* =========================================================================
* DFA tables for the parser
*/
<if(cyclicDFAs:cyclicDFA())> <! dump tables for all DFA !>
/* =========================================================================
* End of DFA tables for the parser
*/
<endif>

/* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor}>
   <returnType()> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
       endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
   { if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName>()-
      <ruleDescriptor.name>(ctx-
         ><ruleDescriptor.grammar:delegateName()><if(ruleDescriptor parameterScope.attributes)>,
         endif><ruleDescriptor. parameterScope:attributes:{a|<a.name>}; separator=", ">);
    \}
<endif>
/* End of parsing rules
* ----------------------------------------------------------
*/

/* Syntactic predicates
*/
<synpreds:{p | <synpred(predname=p)>
/* End of syntactic predicates
* ----------------------------------------------------------
*/
parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser", labelType="pANTLR3_COMMON_TOKEN", members=[<actions.parser.members>]) ::= <<
genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN", ...)>><*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, labelType=[<ASTLabelType>], ASTLabelType="pANTLR3_BASE_TREE", superClass="TreeParser", members=[<actions.treeparser.members>]) ::= <<
genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM", rewriteElementType="NODE", ...)>><*/

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.

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* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
  // $ANTLR start <ruleName>
  static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  {
    <ruleLabelDefs()>
    <ruleLabelInitializations()>
    <if(trace)>
      ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
      <block>
      ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
    <else>
      <block>
      <endif>
      <ruleCleanUp()> 
    } 
    // $ANTLR end <ruleName>
  >>
synpred(predname) ::= <<
  static ANTLR3_BOOLEAN <predname>(p<name> ctx)
  {
    ANTLR3_MARKER start;
    ANTLR3_BOOLEAN success;
    BACKTRACKING++;
    <@start()>
    start= MARK();
    <predname>_fragment(ctx);  // can never throw exception
    success= !(FAILEDFLAG);
    REWIND(start);
    <@stop()>
    BACKTRACKING--;
    FAILEDFLAG= ANTLR3_FALSE;
    return success;
  }<\n
  >>
lexerSynpred(predname) ::= <<
  <synpred(predname)>
  >>
ruleMemoization(name) ::= <<
  <if(memoize)>
  >>
if ( (BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>)) )
{
    <if(ruleDescriptor.hasMultipleReturnValues)>
    <if(!ruleDescriptor.isSynPred)>
    retval.start = 0;
    <scopeClean()></n>
    <endif>
    <endif>
    return <ruleReturnValue>();
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if  (HASEXCEPTION())
{
    goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (HASFAILED())
{
    <scopeClean()>
    return <ruleReturnValue>();
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (BACKTRACKING>0)
{
    FAILEDFLAG = <true()>;
    <scopeClean()>
    return <ruleReturnValue>();
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
*  data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
static <returnType()>
<ruleName>(p<name> ctx@if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
  <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
  BACKTRACKING);<endif>
  <ruleDeclarations()>;
  <ruleDescriptor.actions.declarations>
  <ruleLabelDefs()>;
  <ruleInitializations()>;
  <ruleDescriptor.actions.init>
  <ruleMemoization(name=ruleName)>
  <ruleLabelInitializations()>;
</@preamble>
  {
  <block>
  }
  <ruleCleanUp()>
  <if(exceptions)>
    if(HASEXCEPTION())
    {
      <exceptions:{e|<catch(decl=e.decl,action=e.action)<
    >}
      else
      {
      <ruleDescriptor.actions.after):execAction()>
      }
    </else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
  else
  if (HASEXCEPTION())
  {
    PREPORTERROR();
    PRECOVER();
    <@setErrorReturnValue()>
  }
  <if(ruleDescriptor.actions.after)>
  else
  {
  <ruleDescriptor.actions.after):execAction()>
  }
  <endif>
<if(trace>)System.out.println("exit <ruleName> "+LT(1)+" failed="+failed+
backtracking="+BACKTRACKING);
<endif>
<memoize>()
<finally>
@postamble()}
return <ruleReturnValue>();
/* SANTLR end <ruleName> */
>>
catch(decl,action) ::= <<
/* catch(decl,action)
*/
if  ((HASEXCEPTION()) && (EXCEPTION->type == <e.decl>) )
{
   <e.action>
}
>>
ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
<returnType()> retval;<
>
@else
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
@endif
@if(memoize)
ANTLR3_UINT32 <ruleDescriptor.name>_StartIndex;
@endif
>>
ruleInitializations() ::= <<
/* Initialize rule variables */
@if(memoize)
<ruleDescriptor.name>_StartIndex = INDEX();
@endif
@if(ruleDescriptor.useScopes:{<scopeTop(sname=it)> = <scopePush(sname=it)>}; separator="\n"
<ruleDescriptor.ruleScope:{<scopeTop(sname=it.name)> = <scopePush(sname=it.name)>}; separator="\n"
>>
ruleLabelDefs() ::= <<
@<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>
:{{labelType> <it.label.text>}; separator="\n"
>
@<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
:pANTLR3_VECTOR list_<it.label.text>; separator="\n"
ruleLabelInitializations() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>
 :{<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
 :{list_<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels>
 :ruleLabelInitVal(label=it); separator="\n"
>
#if(ruleDescriptor.hasMultipleReturnValues)
#if(!ruleDescriptor.isSynPred)
retval.start = LT(1); <\n
<endif>
<endif>
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
 :{<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels:{ANTLR3_UINT32 <it.label.text>;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
 :{<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>

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lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{<it.label.text> = NULL;}; separator="un"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
:{list_<it.label.text>->free(list_<it.label.text>);}; separator="un"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (BACKTRACKING>0) {MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

ruleCleanUp() ::= <<
// This is where rules clean up and exit

//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex:
<scopeClean()>
<if(!ruleDescriptor.hasMultipleReturnValue)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);
<endif>
<endif>
<endif>
**How to generate a rule in the lexer; naked blocks are used for**
* fragment rules, which do not produce tokens.
* /
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
* *
* $ANTLR start <ruleName>
* *
* Looks to match the characters the constitute the token <ruleName>
* from the attached input stream.
* *
* *
* \remark
* - lexer->error == ANTLR3_TRUE if an exception was thrown.
* */
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
ANTLR3_UINT32 _type;
<ruleDeclarations()>
<ruleDescriptor.actions.declarations>
<lexerRuleLabelDefs()>
<if(trace)>System.out.println("enter <ruleName> "+(char)LA(1)+"
line="+GETLINE()+":"+GETCHARPOSITIONINLINE()+" failed="+failed+" backtracking="+BACKTRACKING);<endif>

<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelInit()>
<ruleDescriptor.actions.init>

<block><

<else>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelInit()>
_type = <ruleName>;

<ruleDescriptor.actions.init>
LEXSTATE->type = _type;

<endif>
<if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking =%d
",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);
<endif>
<ruleCleanUp()>
<lexerRuleLabelFree()>
<(ruleDescriptor.actions.after):execAction()>
<memoize>
}

// $ANTLR end <ruleName>

/** How to generate code for the implicitly-defined lexer grammar rule */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that */
static void
mTokens(p<name> ctx)
{
<block><

goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
{
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    @@predecision()
    <decision>
    @@postdecision()
    @@prebranch()
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
}

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for (;;)
{
    int alt<decisionNumber>==<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
    default:

    if ( cnt<decisionNumber> >= 1 )
    {
        goto loop<decisionNumber>;
    }
    <ruleBacktrackFailure()>
    <earlyExitEx()>
    <@earlyExitException()>
    goto rule<ruleDescriptor.name>Ex;
}
    cnt<decisionNumber>++;
    }
    loop<decisionNumber>: J/* Jump to here if this rule does not match */
<@postloop()>
}

earlyExitEx() ::= <<
/* mismatchedSetEx() */
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
<<
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
<decls>
<<
for (;;)
{ 
  int alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>)
  {
  <alts:altSwitchCase()>
  default:
    goto loop<decisionNumber>;/* break out of the loop */
    break;
  }
  loop<decisionNumber>: ; /* Jump out to here if this rule does not match */
  <@postloop()>
  >>
  }
  closureBlockSingleAlt ::= closureBlock

  /** Optional blocks (x)? are translated to (x|) by antlr before code generation
   * so we can just use the normal block template
   */
  optionalBlock ::= block

  optionalBlockSingleAlt ::= block

  /** A case in a switch that jumps to an alternative given the alternative
   * number. A DFA predicts the alternative and then a simple switch
   * does the jump to the code that actually matches that alternative.
   */
  altSwitchCase() ::= <<
    case <i>:
      <@prealt()>
      <it>
      break;<\n>
    >>

  /** An alternative is just a list of elements; at outermost level */
  alt<elements,altNum,description,autoAST,outerAlt,treeLevel,rew> ::= <<
    // <fileName>:<description>
    {
    <@declarations()>
    <@initializations()>
    <elements:element()>
    <rew>
    <@cleanup()>
    }
  >>
// ELEMENTS
/** What to emit when there is no rewrite. For auto build */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element() ::= <<
<prematch()>
<it.el>
\n
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label> = (<labelType>)<endif> MATCHT(<token>,
&FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<labelList(elem=label,...)>;

>>

listLabel(label,elem) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <elem>, NULL);
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = LA(1);<\n
<endif>
MATCHC(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = LA(1);<\n
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
  if(label)
  <if(LEXER>)
  <label>= LA(1);<\n>
  <else>
  <label>=(<labelType>)LT(1);<\n>
  <endif>
  <endif>
  if ( <s> )
  {
    CONSUME();
    <postmatchCode>
    <if(!LEXER>)
      PERRORRECOVERY=ANTLR3_FALSE;
    <endif>
    <if(backtracking)>FAILEDFLAG=ANTLR3_FALSE;<\n><endif>
    }
  else
  {
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
    <if(LEXER>)
      LRECOVER();
    <else>
      RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
    <endif>
    goto rule<ruleDescriptor.name>Ex;
  }<<
>>
mismatchedSetEx() ::= <<
  CONSTRUCTEX();
  EXCEPTION->type   = ANTLR3_MISMATCHED_SET_EXCEPTION;
  EXCEPTION->name   = (void *)ANTLR3_MISMATCHED_SET_NAME;
  <if(PARSER>)
  expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
  <endif>
>>

matchRuleBlockSet ::= matchSet
matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,....)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
<label> Start = GETCHARINDEX();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tnstream->istream;
<else>
MATCHS(<string>);
<checkRuleBacktrackFailure()><

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,....)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = LA(1);<

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,....)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()>-><endif><rule.name>(ctx<if(scope)>><scope:delegateName()><endif><if(args)>, <args; separator=", "><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
ANTLR3_UINT32 <label>Start<elementIndex> = GETCHARINDEX();
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>><scope:delegateName()><endif> <if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start<elementIndex>);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT;
}
<else>
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>><scope:delegateName()><endif> <if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */

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/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
  {
    ANTLR3_UINT32 <label>Start<elementIndex>;
    <labelType> <label>;
    <label>Start<elementIndex> = GETCHARINDEX();
    MATCHC(ANTLR3_CHARSTREAM_EOF);
    <checkRuleBacktrackFailure()>
    <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
    <label>->setType(<label>, ANTLR3_TOKEN_EOF);
    <label>->setStartIndex(<label>, <label>Start<elementIndex>);
    <label>->setStopIndex(<label>, GETCHARINDEX()-1);
    <label>->input = INPUT->tnstream->istream;
  }
  <else>
    MATCHC(ANTLR3_CHARSTREAM_EOF);
    <checkRuleBacktrackFailure()>
  </endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
      MATCHT(ANTLR3_TOKEN_DOWN, NULL);
      <checkRuleBacktrackFailure()>
      <children:element()>
      MATCHT(ANTLR3_TOKEN_UP, NULL);
      <checkRuleBacktrackFailure()>
    }
    <else>
      MATCHT(ANTLR3_TOKEN_DOWN, NULL);
      <checkRuleBacktrackFailure()>
      <children:element()>
      MATCHT(ANTLR3_TOKEN_UP, NULL);
      <checkRuleBacktrackFailure()>
    </endif>
  </if(nullableChildList)>
>>

/** Every predicate is used as a validating predicate (even when it is
/* also hoisted into a prediction expression). */

validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) )
{
    <ruleBacktrackFailure()>
    <newFPE(...)>
}
>>

newFPE() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type = ANTLR3_FAILED_PREDICATE_EXCEPTION;
    EXCEPTION->message = (void *)"<description>";
    EXCEPTION->ruleName = (void *)"<ruleName>";
    <\n>
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
else
{
    <if(eotPredictsAlt)>
        alt<decisionNumber>=<eotPredictsAlt>;
    </if>
    <else>
    <ruleBacktrackFailure()>
    <newNVException()>
        goto rule<ruleDescriptor.name>Ex;
    <endif>

    <newNVException()>
    >>

newNVException() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
    EXCEPTION->message = (void *)"<description>";
    EXCEPTION->decisionNum = <decisionNumber>;
    EXCEPTION->state = <stateNumber>;
    <@noViableAltException()>
    <\n>
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1) == X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
        {
            int LA<decisionNumber>_<stateNumber> = LA(<k>);
            <edges; separator="\nelse ">
        }
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackStateDecls():= <<
ANTLR3_UINT32   LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
        {
/* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) */
            int LA<decisionNumber>_<stateNumber> = LA(<k>);
            <edges; separator="\nelse ">
            <if(eotPredictsAlt)>
                alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
            </if(!edges)>
            alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
            <else>
                else
                {
                    alt<decisionNumber>=<eotPredictsAlt>;
                }
            </if>
        }
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=%<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
have to evaluate some predicates for this edge.

*/

\[\text{dfaEdge(labelExpr, targetState, predicates)} ::= \langle\langle \\
\text{if ( (<labelExpr}) ) \text{ if(predicates)} \&\& ( <\text{predicates}) <\text{endif}) \\
\{ \\
\text{<targetState> \\
\} \\
\rangle\rangle
\]

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/

\[\text{dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState)} ::= \langle\langle \\
\text{switch ( LA(<k>))} \\
\{ \\
\text{<edges; separator="n"} \\
\} \\
\rangle\rangle
\]

default:

\[\langle\langle \\
\text{if(eotPredictsAlt)} \\
\text{alt<decisionNumber>=eotPredictsAlt;} \\
\text{else} \\
\text{ruleBacktrackFailure()} \\
\text{newNVException()} \\
\text{goto rule<ruleDescriptor.name>Ex;<n} \\
\text{<endif>} \\
\} <n \\
\rangle\rangle
\]

\[\text{dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState)} ::= \langle\langle \\
\text{switch ( LA(<k>))} \\
\{ \\
\text{<edges; separator="n"} \\
\} <n \\
\rangle\rangle
\]

default:

\[\langle\langle \\
\text{if(eotPredictsAlt)} \\
\text{alt<decisionNumber>=eotPredictsAlt;} \\
\text{default: \\
\text{break}<n} \\
\text{<endif>} \\
\} <n \\
\rangle\rangle
\]

default:

\[\langle\langle \\
\text{if(eotPredictsAlt)} \\
\text{break}<n \\
\text{<endif>} \\
\text{<endif>} \\
\} <n \\
\rangle\rangle
\]
```c
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM, &cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
 * which are then used to statically initialize the dfa structure, which means that there
 * is no runtime initialization whatsoever, other than anything the C compiler might
 * need to generate. In general the C compiler will lay out memory such that there is no
 * runtime code required.
 */
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
 * <dfa.description>
 */
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
{
<dfa.eof; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
{
<dfa.min; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
{
<dfa.max; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
```
```c

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T<i0>[]= 
    
};}; null = "">

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[]= 
    
};:

<if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer, pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s) 
{
    ANTLR3_INT32 _s;

    _s = s;
    switch (s) 
    { 
    <dfa.specialStateSTs:{state |}
    case <i0>>: 
    <state>; separator="\n" >
    } <if(backtracking)>
        if (BACKTRACKING > 0) 
        { 
            FAILEDFLAG = ANTLR3_TRUE;
            return-1;
        } 
        <endif>
    }

    CONSTRUCTEX();
```
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<dfa.description>";
EXCEPTION->decisionNum = <dfa.decisionNumber>;
EXCEPTION->state = _s;
</noViableAltException>
return -1;
}
@endif

@enderrorMethod()

/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber> */
static
ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber>
= {
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const pANTLR3_UCHAR)"<dfa.description>",
    <if(dfa.specialStateSTs)>
        (CDFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
    <else>
        (CDFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition, /* Default special state transition function*/
    </endif>
    antlr3dfaspecialTransition, /* DFA specialTransition is currently just a default function in the runtime */
    antlr3dfapredict, /* DFA simulator function is in the runtime */
    dfa<dfa.decisionNumber>_eot, /* EOT table */
    dfa<dfa.decisionNumber>_eof, /* EOF table */
    dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
    dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
    dfa<dfa.decisionNumber>_accept, /* Accept table */
    dfa<dfa.decisionNumber>_special, /* Special transition states */
    dfa<dfa.decisionNumber>_transitions /* Table of transition tables */
};
/* End of Cyclic DFA <dfa.decisionNumber> */
/* --------------------- */
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAStrate(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
};
ANTLR3_UINT32 LA<decisionNumber>_ <stateNumber>; 
ANTLR3_MARKER index<decisionNumber>_ <stateNumber>; ; 

LA<decisionNumber>._<stateNumber> = LA(1);

<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>._<stateNumber> = INDEX();
REWINDLAST();
<endif>

s = -1;
<edges; separator="\else ">
<if(semPredState)> <! return input cursor to state before we rewound !>
SEEK(index<decisionNumber>._<stateNumber>);
<endif>

if ( s>=0 )
{
return s;
}
}
break;

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (labelExpr) <if(predicates)>&& (<predicates>)<endif>)
{
    s = <targetStateNumber>;
}<\n
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "((<left>) && (<right>))"

orPredicates(operands) ::= "((<first(operands)>)<rest(operands):{o | ||(<o>)}>)"

notPredicate(pred) ::= "!( <evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>(ctx)"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((LA<decisionNumber>_<stateNumber> \>= <lower>) && (LA<decisionNumber>_<stateNumber> \<= <upper>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) \>= <lower>)
&& (LA(<k>) \<= <upper>))"

setTest(ranges) ::= "<ranges; separator=" || ">

// A T T R I B U T E S

makeScopeSet() ::= <<
/* makeScopeSet()
*/
/** Definition of the <scope.name> scope variable tracking
* structure. An instance of this structure is created by calling
* <name>._<scope.name>Push().
*/
typedef struct <scopeStruct(sname=scope.name,...)>._struct
{
    /** Function that the user may provide to be called when the
* scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
* 
* \param POinter to an instance of this typedef/struct
*/
    void (ANTLR3_CDECL *free)(struct <scopeStruct(sname=scope.name,...)>._struct * frame);

    /* ==============================================================
    * Programmer defined variables...
    */
    <scope.attributes:{<it.decl>;}; separator="\n">;

    /* End of programmer defined variables
    */
    <scopeStruct(sname=scope.name,...)>, * <scopeType(sname=scope.name,...)>
};

>>
globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
 */
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
 */
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::= 
<<
<if(scope.attributes)>
/* globalAttributeScopeFuncDecl(scope)
 */
<if(scope.attributes)>
/* -----------------------------------------------------------------------------
 * Function declaration for creating a <name>_<scope.name> scope set
 */
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----------------------------------------------------------------------------- */

<endif>
>>

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncDecl(scope)
 */
<if(scope.attributes)>
/* ** Macro for popping the top value from a <scopeStack(sname=scope.name)> */
#define <scopePopName(sname=scope.name,...>)() SCOPE_TOP(<scope.name>) =
((<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>)->pop(ctx->
<scopeStack(sname=scope.name,...)>)))

<endif>
>>

globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope)
 */
/**< Macro for popping the top value from a <scopeStack(sname=scope.name)> */
#define <scopePopName(sname=scope.name,...)>() SCOPE_TOP(<scope.name>) =
((<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>)->pop(ctx->
<scopeStack(sname=scope.name,...)>)))

<endif>
>>
/* ----------------------------------------------------------------------------- */

static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----------------------------------------------------------------------------- */

<endif>
>>

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
*/
/** Macro for popping the top value from a <scopeStack(sname=scope.name,...)> */
*/
#define <scopePopName(sname=scope.name,...)>()  SCOPE_TOP(<scope.name>) =
((<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>->pop(ctx->
<scopeStack(sname=scope.name,...)>)))

<endif>
>>

globalAttributeScopeDef(scope) ::=
<<
/* globalAttributeScopeDef(scope)
*/
<if(scope.attributes)>
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() */
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name);
/* Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)> */
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDef(scope)
*/
/* Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() */
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name);
<scopeType(sname=scope.name,...)>
  (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct * ctx);
<scopeType(sname=scope.name,...)>
  <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

globalAttributeScopeFuncs(scope) ::= <<
  <if(scope.attributes)>
  /* globalAttributeScopeFuncs(scope) */
  <attributeFuncs(scope)>
  <endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
  <if(scope.attributes)>
  /* ruleAttributeScopeFuncs(scope) */
  <attributeFuncs(scope)>
  <endif>
>>

globalAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  /* globalAttributeScope(scope) */
  ctx-><scopePushName(sname=scope.name,...)>     = <scopePushName(sname=scope.name,...)>;
  ctx-><scopeStack(sname=scope.name,...)>    = antlr3StackNew(ANTLR3_SIZE_HINT);
  <scopeTop(sname=scope.name,...)>      = NULL;
  <endif>
>>

ruleAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  /* ruleAttributeScope(scope) */
  ctx-><scopePushName(sname=scope.name,...)>     = <scopePushName(sname=scope.name,...)>;
  ctx-><scopeStack(sname=scope.name,...)>    = antlr3StackNew(ANTLR3_SIZE_HINT);
  <scopeTop(sname=scope.name,...)>      = NULL;
  <endif>
>>

globalAttributeScopeFree(scope) ::= <<
  <if(scope.attributes)>
  /* globalAttributeScope(scope) */
  ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<<
ruleAttributeScopeFree(scope) ::= <<
<<
<if(scope.attributes)>
/* ruleAttributeScope(scope) */
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
<scopePopName(sname=sname,...)>();
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

scopePushName(sname) ::= <<
p<name>_<sname>Push
>>

scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>

scopeStruct(sname) ::= <<
<name>_<sname>_SCOPE
>>

scopeStack(sname) ::= <<
p<name>_<sname>Stack
>>
>>
attributeFuncs(scope) ::= <<
/if(scope.attributes)>
/* attributeFuncs(scope)
*/

static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)
{

// If the user supplied the scope entries with a free function, then call it first
//
if(scope->free != NULL)
{
    scope->free(scope);
}
    ANTLR3_FREE(scope);
}

/** rief Allocate initial memory for a <name> <scope.name> scope variable stack entry and
* add it to the top of the stack.
*
* 
* \remark
* By default the structure is freed with ANTLR_FREE(), but you can use the
* the \@init action to install a pointer to a custom free() routine by
* adding the code:
* \code
* <scopeTop(sname=scope.name)>->free = myroutine;
* \endcode
*
* With lots of comments of course! The routine should be declared in
* \@members { } as:
* \code
* void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr).
* \endcode
*
* It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
* NB: It should not free the pointer it is given, which is the scope stack entry itself
* and will be freed by the function that calls your custom free routine.
* */
*/
static <scopeType(sname=scope.name)>
<scopePushName(sname=scope.name)>(p<name> ctx)
{
    /* Pointer used to create a new set of attributes
*/
    <scopeType(sname=scope.name)> newAttributes;

    /* Allocate the memory for a new structure
*/
newAttributes = (<scopeType(sname=scope.name)>) ANTLR3_CALLOC(1, sizeof(<scopeStruct(sname=scope.name)>));

if (newAttributes != NULL) {
    /* Standard ANTLR3 library implementation */
    ctx-><scopeStack(sname=scope.name)>::push(ctx-><scopeStack(sname=scope.name)>, newAttributes, (void (*)(void *))<scope.name>Free);

    /* Return value is the pointer to the new entry, which may be used locally */
    * without de-referencing via the context.
    */
}

/* Calling routine will throw an exception if this */
* fails and this pointer is NULL.
*/
return newAttributes;

<endif>

returnStructName() ::= ":<it.name>_return"

returnType() ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  ANTLR3_BOOLEAN
  <endif>
  <endif>
  <endif>

  /* Generate the C type associated with a single or multiple return */
  * value(s).
  */
ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  <referencedRule.grammar.recognizerName>_<referencedRule.name>_return
  <else>
  <referencedRule.singleValueReturnTypeName>
  <endif>
delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "0".
*/
initValue(typeName) ::= <<
<cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>
#ifndef RETURN_TYPE_<label.label.text>
#define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)>
#endif
>>&gt;

/** Rule label default value */
ruleLabelInitVal(label) ::= <<
<if(label.referencedRule.hasSingleReturnValue)>
<label.label.text> = <initValue(label.referencedRule.singleValueReturnType)>;
<endif>
>>&gt;

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(!ruleDescriptor.hasMultipleReturnValues)>
typedef struct <ruleDescriptor.grammar.recognizerName><ruleDescriptor:returnStructName()>_struct
{

<if(!TREE_PARSER)>
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
*/
pANTLR3_COMMON_TOKEN     start;
pANTLR3_COMMON_TOKEN     stop;
<else>
<recognizer.ASTLabelType>     start;
```
<recognizer.ASTLabelType> stop;
@endif
<@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{<it.decl>}; separator="\n">
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName>();<\n><\n>
@endif
@endif
>>

parameterScope(scope) ::= {{
<scope.attributes:{<it.decl>}; separator="", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;"

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= {{
@if(negIndex) ((SCOPE_TYPE('<scope>'))(ctx->SCOPE_STACK(<scope>))->get( ctx->SCOPE_STACK(<scope>),ctx->SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 ))-><attr.name>
@if(index) ((SCOPE_TYPE('<scope>'))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),(ANTLR3_UINT32)<index> ))))-><attr.name>
@if(index) (SCOPE_TOP(<scope>))-><attr.name>
@if(index) 
@endif
@endif
>>
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= {{
@if(negIndex) ((SCOPE_TYPE('<scope>'))(ctx->SCOPE_STACK(<scope>))->get( ctx->SCOPE_STACK(<scope>),ctx->SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 ))-><attr.name> = <expr>;
@if(index) ((SCOPE_TYPE('<scope>'))(ctx->SCOPE_STACK(<scope>))->get(ctx->SCOPE_STACK(<scope>),(ANTLR3_UINT32)<index> ))))-><attr.name> = <expr>;
@if(index) (SCOPE_TOP(<scope>))-><attr.name> = <expr>;
@if(index) 
@endif
@endif
>>
/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like \{function.size()>0 && function::name.equals("foo")\}?
*/
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<scope>,<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel$ */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID \{Ids\} or e+=expr \{Se\} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope> != NULL ? <scope>->getText(<scope>) : NULL)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope> != NULL ? <scope>->getType(<scope>) : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope> != NULL ? <scope>->getLine(<scope>) : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope> != NULL ? <scope>->getCharPositionInLine(<scope>) : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope> != NULL ? <scope>->getChannel(<scope>) : 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope> != NULL ? <scope>->getTokenIndex(<scope>) : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope> != NULL ? <scope>->tree : NULL)"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope> != NULL ? <scope>->getText(<scope>)->toInt32(<scope>) : 0)"

> getText(<scope>) : 0)

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    (<scope>.start != NULL ? STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start) : NULL )
  <else>
    (<scope>.start != NULL ? STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop) : NULL )
  <endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> != NULL ? <scope>->getType(<scope>) : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> != NULL ? <scope>->getLine(<scope>) : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> != NULL ? <scope>->getCharPositionInLine(<scope>) : 0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> != NULL ? <scope>->getChannel(<scope>) : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> != NULL ? <scope>->getTokenIndex(<scope>) : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> != NULL ? <scope>->getText(<scope>) : NULL)

// Somebody may ref Stemplate or Stree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval).start"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval).stop"
rulePropertyRef_tree(scope,attr) ::= "((<labelType>)retval).tree"
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR-
    ->getTokenStopIndex(ADAPTOR, retval.start))
  <else>
    STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
  <endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(LEXER->CharIndex(LEXER)-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope.attr) ::= "LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "((<labelType>)retval).tree=<expr>;;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;;"

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
      if ( <actions.(actionScope).synpredgate> )
      {
        <action>
      }
    </else>
  </if>
  <else>
    if ( BACKTRACKING == 0 )
    {
      <action>
    }
  </endif>
>>

// M I S C (properties, etc...)
bitsetDeclare(name, words64) ::= <<
/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR3_BITWORD <name>_bits[] = { <words64:{ANTLR3_UINT64_LIT(<it>)}; separator=","> };
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)> };
>>
bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);<un>
>>

codeFileExtension() ::= ".c"
true() ::= "ANTLR3_TRUE"
false() ::= "ANTLR3_FALSE"

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
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*/
group CSharp implements ANTLRCore;

csharpTypeInitMap := [
  "int":"0",
  "uint":"0",
  "long":"0",
  "ulong":"0",
  "float":"0.0",
  "double":"0.0",
  "bool":"false",
  "byte":"0",
  "sbyte":"0",
  "short":"0",
  "ushort":"0",
  "char":"char.MinValue",
default:"null" // anything other than an atomic type
** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
        docComment, recognizer,
        name, tokens, tokenNames, rules, cyclicDFAs,
        bitsets, buildTemplate, buildAST, rewriteMode, profile,
        backtracking, synpreds, memoize, numRules,
        fileName, ANTLRVersion, generatedTimestamp, trace,
        scopes, superClass, literals) ::= <<

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
</if>

<actions.(actionScope).header>

<@imports>
using System;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
</if>
using IList = System.Collections.IList;
using ArrayList = System.Collections.ArrayList;
using Stack = Antlr.Runtime.Collections.StackList;

<if(backtracking)>
using IDictionary = System.Collections.IDictionary;
using Hashtable = System.Collections.Hashtable;
</if>

</@end>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
</if>

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
    filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> : <@superClassName><superClass><@end> {
    <tokens:{public const int <it.name> = <it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> 
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g:delegateName>();}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g:delegateName>();}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}> 

    public <grammar.recognizerName>() <! needed by subclasses !>
        
        InitializeCyclicDFAs();
        
        public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName>
        <g:delegateName()>}>)
            : this(input, null<grammar.delegators:{g|, <g:delegateName()>}>) {
        
        public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|,
        <g.recognizerName> <g:delegateName()>}>)
            : base(input, state) {
        InitializeCyclicDFAs(); <! Necessary in C#??? Not removed yet. !>
        <if(memoize)>
            <if(grammar.grammarIsRoot)>
                state.ruleMemo = new Hashtable[<numRules>+1];<\n> <! index from 1..n !>
            <endif>
        <endif>
    <grammar.directDelegates:
        {g<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
        <p:delegateName()>}>, this);}; separator="\n">
    <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName>();}> 

    override public string GrammarFileName
        
        get { return "<fileName>";}
    }
    
    <if(filterMode)>
        <filteringNextToken()>
    <endif>
    
    <rules; separator="\n\n"
private void InitializeCyclicDFAs()
{
    <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<@debugAddition()>);}; separator="\n">;
    <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>}; separator="\n">;
}

/** A override of Lexer.nextToken() that backtracks over mTokens() looking *
for matches. No error can be generated upon error; just rewind, consume *
a token and then try again. backtracking needs to be set as well. *
* Make rule memoization happen only at levels above 1 as we start mTokens *
at backtracking==1. */
filteringNextToken() ::= <<
override public IToken NextToken()
{
    while (true)
    {
        if ( input.LA(1) == (int)CharStreamConstants.EOF )
        {
            return Token.EOF_TOKEN;
        }
        state.token = null;
        state.channel = Token.DEFAULT_CHANNEL;
        state.tokenStartCharIndex = input.Index();
        state.tokenStartCharPositionInLine = input.CharPositionInLine;
        state.tokenStartLine = input.Line;
        state.text = null;
        try
        {
            int m = input.Mark();
            state.backtracking = 1; <! means we won't throw slow exception !>
            state.failed = false;
            mTokens();
            state.backtracking = 0;
        <!}
mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1.

if ( state.failed )
{
    input.Rewind(m);
    input.Consume(); <! // advance one char and try again !>
}
else
{
    Emit();
    return state.token;
}

} catch (RecognitionException re)
{
    // shouldn't happen in backtracking mode, but...
    ReportError(re);
    Recover(re);
}

} }

override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if ( state.backtracking > 1 )
    base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if ( state.backtracking>1 )
    return base.AlreadyParsedRule(input, ruleIndex);
    return false;
}

>>

filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
            bitsets, inputStreamType, superClass,
            ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
public class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
    public static readonly string[] tokenNames = new string[]
    {

...
"\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
<tokenNames; separator="", \n">
};\n
<endif>

<tokens:{public const int <it.name> = <it.type>;}; separator="\n">

// delegates
<grammar.delegates:
    {g|public <g.recognizerName> <g:delegateName>();}; separator="\n">

// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName>();}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}

<scopes:{[if(it.isDynamicGlobalScope)<globalAttributeScope(scope=it)<endif> ]>

<!-- WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}>)
{
}

public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}>)
: base(input, state) {
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|<p:delegateName()>, this};); separator="\n">}
        <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>}; separator="\n">}
    <last(grammar.delegators):{g|gParent = <g:delegateName>();}>}
}

@end>

override public string[] TokenNames {
get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
}

override public string GrammarFileName {
get { return "\<fileName>"; }
}
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>

// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
  public <returnType()>() <ruleDescriptor.name>()(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)//
  throws RecognitionException
  {
  <if(ruleDescriptor.hasReturnValue)>return
  <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>()(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator=" ",">;
  \}); separator="\n"
  
  <synpreds:{p | <synpred(p)>}> </grammar.delegatedRules/>
  </synpreds>

  <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n"> private void InitializeCyclicDFAs()

  {
  <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">
  <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
  DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>};
  separator="\n”>
  }

  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

  <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
  words64=it.bits)>}
}

parserCtorBody() ::= <<
  InitializeCyclicDFAs();
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  this.state.ruleMemo = new Hashtable[length(grammar.allImportedRules)+1];<\n> <! index from 1..n !>
  <endif>
  <endif>
  <grammar.delegators:
  {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n”>

  parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
  labelType="IToken", members={<actions.parser.members>}) ::= <<
  <genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start "<ruleName>"
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) {
   <ruleLabelDefs()>
   <if(trace)>
      TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
      try
      {
         <block>
      }
      finally
      {
         TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
      }
   </if>
   <block>
   <endif>
} // $ANTLR end "<ruleName>"
>>
synpredDecls(name) ::= <<
SynPredPointer <name>;<
>>
synpred(name) ::= <<
public bool <name>()
{
   state.backtracking++;

}}
int start = input.Mark();
try {
    __fragment(); // can never throw exception
} catch (RecognitionException re) {
    Console.Error.WriteLine("impossible: "+re);
}
bool success = !state.failed;
input.Rewind(start);

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize>
if ( (state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>) )
{
return <ruleReturnValue>();
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if ( state.backtracking > 0 ) {state.failed = true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type *
* data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
catch(decl,action) ::= <<
catch (<e.decl>)
{
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType>()();
retval.Start = input.LT(1);<
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;}
}<endif>
<if(memoize)>
int <ruleDescriptor.name>_StartIndex = input.Index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Push(new <it>_scope());}; separator="\n"> 
<ruleDescriptor.ruleScope:{<it.name>_stack.Push(new <it.name>_scope());}; separator="\n"> 
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Pop();}; separator="\n"> 
<ruleDescriptor.ruleScope:{<it.name>_stack.Pop();}; separator="\n"> 
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>
: {<labelType> <it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
: {IList list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n"> 
<ruleDescriptor.ruleListLabels:{ll|<ruleLabelType(referencedRule=ll.referencedRule)> <ll.label.text> = null;}; separator="\n"> 
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels, 
ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
: {<labelType> <it.label.text> = null;}; separator="\n"
/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  // $ANTLR start "<ruleName>
  public void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws RecognitionException [2]
  {
  
  }
try
{
    <if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><n>
    </if>

    int _type = <ruleName>;
    int _channel = DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    state.type = _type;
    state.channel = _channel;
    <(ruleDescriptor.actions.after):execAction()>
    <endif>
} finally
{
    <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
}

/** How to generate code for the implicitly-defined lexer grammar rule
 *  that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
    <block><n>
}

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
```c
// <fileName>::<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
}
    <@postbranch()>
}>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
    <@predecision()>
    <decision>
    <@postdecision()>
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
}
    <@postbranch()>
}>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description>
<decls>
    <@prealt()>
    <alts>
    <@postalt()>
}>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description>
<decls>
    <@prealt()>
    <alts>
    <@postalt()>
}>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
```
int cnt<decisionNumber> = 0;

do
{
    int alt<decisionNumber> = <maxAlt>;
    switch (alt<decisionNumber>)
    {
        default:
            if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>;
            EarlyExitException eee =
                new EarlyExitException(<decisionNumber>, input);
                throw eee;
    }
    cnt<decisionNumber>++;
} while (true);

loop<decisionNumber>:
	// Stops C# compiler whinging that label 'loop<decisionNumber>' has no statements
>}
} while (true);

loop<decisionNumber>:
    // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
    @$postloop()$
    >>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
    case <i> :
    <$@prealt()>$;
    <$it>
    break;$<ln>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description>
    {
    <$@declarations()>$
    <$elements:element()>$
    <$rew>
    <$@cleanup()>$
    }
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
@if(label)><label>=(<labelType>)<endif>Match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> == null) list_<label> = new ArrayList();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
@if(label)>
<label> = input.LA(1);<\n>
@endif
Match(<char>);<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)>
<label> = input.LA(1);<\n>
@endif
MatchRange(<a>,<b>);<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",:) ::= <<
@if(label)>
@if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
Match(<s>);<checkRuleBacktrackFailure()>
>>
input.Consume();
<postmatchCode>
@if(!LEXER>)
    state.errorRecovery = false;
@endif>
</if>(backtracking)>state.failed = false;</endif>
}
else
{
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <![CDATA[@mismatchedSetException()]]>
    @<if(LEXER>)
    Recover(mse);
    throw mse;
    @else>
    throw mse;
    <![CDATA[@throw mse]]>
    <!-- use following code to make it recover inline; remove throw mse;
    RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
    @<endif>
} </n>
>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet(...)>
    <listLabel(elem=label,...)>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
    @<if(label)>
    int <label>Start = CharIndex;
    @Match(<string>) ; <checkRuleBacktrackFailure()>
    <![CDATA[@<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
    <![CDATA[@<label>Start, CharIndex-1];
    @<else>
    Match(<string>) ; <checkRuleBacktrackFailure()>
    @</endif>
    <![CDATA[@/n]>
    <![CDATA[@<endif>
    <![CDATA[@/n]>
    <![CDATA[@>]]>

wildcard(label,elementIndex) ::= <<
    @<if(label)>
    <![CDATA[@<label> = (<labelType>)input.LT(1);<n]>
    @</endif>
    MatchAny(input); <checkRuleBacktrackFailure()>


>>
wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> = <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<endif>
state.followingStackPointer--;
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.

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*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>
/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1) == Token.DOWN )
{
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>

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/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) )
{
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d  D F A  (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_stateNumber = input.LA(<k>);
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
    new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<@noViableAltException()> throw nvae_d<decisionNumber>s<stateNumber>;
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_stateNumber = input.LA(<k>);
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* 'This is used only in the lexer so that for ('a)\* on the end of a rule
* anything other than 'a' predicts exiting.
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\n">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
</if>
</if>
else
{
    alt<decisionNumber> = <eotPredictsAlt>;
}</if>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied, */
/** enter to the target state. To handle gated productions, we may */
/** have to evaluate some predicates for this edge. */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>)<if(predicates)>&& (<predicates>)<endif>
{
    <targetState>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator */
/** decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
break;
</if>
</if>
<!--ruleBacktrackFailure()-->
NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
   new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
@endif
</noViableAltException()>>
throw nva_d<decisionNumber>s<stateNumber>;<
</n>
</n>
>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
} <\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
    <if(eotPredictsAlt)>
    default:
        alt<decisionNumber> = <eotPredictsAlt>;
        break;<\n>
    <endif>
} <\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
{
    <targetState>
}
    break;
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables.
*/
cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap=""+ln \""">
const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\"+\n \"">";
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|"<s; wrap="\"+/\n\"">"}; separator="",\n">
};
static readonly short[] DFA<dfa.decisionNumber>_eot =
    DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
    DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
    DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
    DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
    DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
    DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition =
    DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{
    <@debugMember()>
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
    {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }
    <@dbgCtor()>

    override public string Description
    {
    }
protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input)  
//throws NoViableAltException
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>
    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
    ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
    int _s = s;
    switch ( s )
    {
    <dfa.specialStateSTs:{state | case <i0> : <! compressed special state numbers 0..n-1 !>  
    <state> }; separator="\n">}
    <if(backtracking)>
    if (state.backtracking > 0) {state.failed = true; return -1;}<\n>
    <endif>
    NoViableAltException nvae =
        new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae);
    throw nvae;
    }<\n>
    <endif>
}>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
*  state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
    <if(semPredState)>
    !< get next lookahead symbol to test edges, then rewind >
    int index<decisionNumber>_<stateNumber> = input.Index();
    input.Rewind();<\n>
    <endif>
    s = -1;
    <edges; separator="\nelse ">
```plaintext
<if(semPredState)> <! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);
<endif>
if ( s >= 0 ) return s;
break;

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>) <endif>) { s = <targetStateNumber>; }
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left> & & <right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | || <o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> \>= <lower> & & LA<decisionNumber>_<stateNumber> \=< upper)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) \>= <lower> & & input.LA(<k>) \=< upper)"
```
setTest(ranges) ::= "<ranges; separator="\  || \">"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnTypeName>
<else>
<referencedRule.singleValueReturnType>
<endif>
<endif>
<else>
<referencedRule.singleValueReturnType>
<endif>
<endif>
>>
```csharp
void
delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<sharpTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)><label.label.text>=
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;\n>
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public class <ruleDescriptor:returnStructName()> : <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
{
    <scope.attributes:{public <it.decl>;}; separator="\n">
    #@ruleReturnMembers()
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl}>; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name>
<else>
```
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name> = <expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like ${function.size}()>0 && ${function::name.equals}("foo")?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> != null) ? <scope>.<attr.name> : <initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor, attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>;
<else>
<attr.name> = <expr>;
>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Sids} or e+=expr {Se}* /
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((<scope> != null) ? int.Parse(<scope>.Text) : 0)"

ruleLabelPropertyRef_start(scope,attr) ::= "((<scope> != null) ? ((labelType)<>scope>.Start) : null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<scope> != null) ? ((labelType)<>scope>.Stop) : null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<scope> != null) ? ((ASTLabelType)<>scope>.Tree) : null)"
ruleLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"

<if(TREE_PARSER)>
<else>
<endif>

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> != null) ? int.Parse(<scope>.Text) : 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.Start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.Stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope,attr) ::= <<
    <if(TREE_PARSER)>
        input.TokenStream.ToString(
            input.TreeAdaptor.GetTokenStartIndex(retval.Start),
            input.TreeAdaptor.GetTokenStopIndex(retval.Start) )
    <else>
        input.ToString((IToken)retval.Start,input.LT(-1))
    <endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
rulesetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;;"
rulesetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>;;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
    <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
        if ( <actions.(actionScope).synpredgate> )
        {
            <action>
        }
    </if>    
    <else>
        if ( state.backtracking == 0 )
        {
            <action>
        }
    </endif>
    </if>
</termination>
/** How to always execute an action even when backtracking */
extForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:{<it>UL};separator="","});<
>>

codeFileExtension() ::= ".cs"

ture() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/antlr/codegen/templates/CSharp/CSharp.stg
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*/
/*
New style messages. This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the default format ANTLR uses.

*/

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4.jar/org/antlr/tool/templates/messages/formats/antlr.stg
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*/
/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

group ST;

//@outputFile.imports() ::= <<
//@super.imports()>
using Antlr.StringTemplate;
using Antlr.StringTemplate.Language;
@if(!backtracking)>
using Hashtable = System.Collections.Hashtable;
@endif>

>>

/** Add this to each rule's return value struct */
//@returnScope.ruleReturnMembers() ::= <<
private StringTemplate st;
public StringTemplate ST { get { return st; } set { st = value; } }
public override object Template { get { return st; } }
public override string ToString() { return (st == null) ? null : st.ToString(); }
>>

//@genericParser.members() ::= <<
//@super.members()>
protected StringTemplateGroup templateLib =
    new StringTemplateGroup("<name>Templates", typeof(AngleBracketTemplateLexer));
public StringTemplateGroup TemplateLib
{
    get { return this.templateLib; }
    set { this.templateLib = value; }
}

/// 
///  Allows convenient multi-value initialization:
///  "new STAttrMap().Add(...).Add(...)"
/// 
protected class STAttrMap : Hashtable
{
    public STAttrMap Add(string attrName, object value)
    {
        base.Add(attrName, value);
        return this;
    }
    public STAttrMap Add(string attrName, int value)
    {
        base.Add(attrName, value);
        return this;
    }
/** x+=rule when output=template */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)
  <listLabel(elem=label+".Template",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
@if(backtracking)
if ( state.backtracking==0 )
{
  <alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()> <endif>
  }
  <else>
  <alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()> <endif>
  <endif>
>>

replaceTextInLine() ::= <<
@if(TREE_PARSER)
  ((TokenRewriteStream)input.TokenStream).Replace(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start),
    retval.ST);
@if(TREE_PARSER)
  <else>
  ((TokenRewriteStream)input).Replace(
    ((IToken)retval.Start).TokenIndex,
    input.LT(-1).TokenIndex,
    retval.ST);
  <endif>
>>

rewriteTemplateAlt() ::= <<
// <it.description>
@if(it.pred)
if (<it.pred>) {
    retval.ST = <it.alt>
} <\n>
@if(it.pred)
else {
    retval.ST = <it.alt>
}
rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs. *
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template. */
 rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args)>,
new STAttrMap(){a | .Add("<a.name>", <a.value>)})
<endif>)
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>,
new STAttrMap(){a | .Add("<a.name>", <a.value>)})
<endif>)
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
new STAttrMap(){a | .Add("<a.name>", <a.value>)})
<endif>)
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>"<,<expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>
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*/

/** Templates for building ASTs during tree parsing. */
/*
*  Deal with many combinations. Dimensions are:
*  Auto build or rewrite
*  no label, label, list label  (label/no-label handled together)
*  child, root
*  token, set, rule, wildcard
*  
*  Each combination has its own template except that label/no label
*  is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _last;<
><ASTLabelType> _first_0;<
> >>

/** Add a variable to track last element matched */
ruleInitializations() ::= <<
<super.ruleInitializations()>
_last = NULL;<
>_first_0 = NULL;<
> >>

/** What to emit when there is no rewrite rule. For auto build *
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR, ADAPTOR->getParent(ADAPTOR, retval.tree) ) )
{
   retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
}
<endif>
<if(backtracking)>}<endif>
> >>

/** match ^(root children) in tree parser; override here to *
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)LT(1);
{   <ASTLabelType> _save_last_<treeLevel>; 
   <ASTLabelType> _first_last_<treeLevel>;     
   <if(!rewriteMode)>
   <ASTLabelType> root_<treeLevel>;
   <endif>
   _save_last_<treeLevel> = _last;
   _first_last_<treeLevel> = NULL;
   <if(!rewriteMode)>
   root_<treeLevel> = (<ASTLabelType>)ADAPTOR->nilNode(ADAPTOR);
   <endif>
   <root:element()>
   <if(rewriteMode)>
}
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)> } <endif>
<else>
<if(backtracking)>if ( BACKTRACKING ==0 ) { <endif>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
<if(backtracking)> } <endif>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
$listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)><if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)> } <endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)> <listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<hetero>}
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
matchRuleBlockSet(s, label, hetero, elementIndex, postmatchCode, treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s, label, elementIndex, postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(...)>   
>>

matchSetRuleRoot(s, label, hetero, elementIndex, debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
#else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
}<endif>
}}

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
#else>
if (_first_<treeLevel> == NULL ) _first_<treeLevel> = <label>_tree;
<endif>
<endif>

// RULE REF AST
/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
<super.listLabelAST(elem=label,...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) <endif>root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
<endif>
<if(backtracking)>}

/** x+=rule when output=AST and tracking for rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<super.listLabelAST(elem=label,...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>
/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
<hetero>New(stream_<token>->nextNode(stream_<token>))
<else>
stream_<token>->nextNode(stream_<token>)
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp(...)> <if(backtracking)>
if ( BACKTRACKING==0 ) {<
<if(!ruleDescriptor.isSynPred)
retval.stop = LT(-1);<
<endif>
retval.tree = ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
<if(backtracking)>
}
<endif>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{stream_<it>->free(stream_<it>);}; separator="\n"
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{stream_<it>->free(stream_<it>);}; separator="\n">
>>

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
  jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
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/** Template overrides to add debugging to normal C output;
*  If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

group Dbg;

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
const char *
ruleNames[] =
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", >
};\n</n>
<endif>
<if(grammar.grammarIsRoot)>
static ANTLR3_UINT32 ruleLevel = 0;
static ANTLR3_UINT32 getRuleLevel()
{
return ruleLevel;
}
static void incRuleLevel()
{
ruleLevel++;
}
static void decRuleLevel()
{
ruleLevel--;
}
<else>
static ANTLR3_UINT32 getRuleLevel()
{
return <grammar.delegators:{g| <g:delegateName()>}>->getRuleLevel();
}
static void incRuleLevel()
```java
{<grammar.delegators:{g|<g:delegateName()>}>->incRuleLevel();
}
static void
decRuleLevel()
{
{<grammar.delegators:{g|<g:delegateName()>}>.decRuleLevel();
}
<endif>
@if(profile)
// Profiling not yet implemented for C target
//
<endif>
@if(grammar.grammarIsRoot)
<ctorForPredefinedListener()>
<else>
<ctorForDelegateGrammar()>
<endif>

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
   DBG->semanticPredicate(DBG, result, predicate);
   return result;
} <n>
>>

@genericParser.debugStuff() ::= <<
@if(grammar.grammarIsRoot)
<createListenerAndHandshake()>
<endif>
>>

tctorForProfilingRootGrammar() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
tctorForDelegateGrammar() ::= <<
//public <name>(<inputStreamType> input, DebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
{
  //super(input, dbg, state);
  //parserCtorBody()
  // <grammar.directDelegates:
  {<g|<g:delegateName()> = new <g.recognizerName>(input, this, state<grammar.delegators:{g,
  <g:delegateName()> } > ); } separator="\n"
  //}
} >>
```
ctorForPredefinedListener() ::= <<
// public <name>(<inputStreamType> input, DebugEventListener dbg) {
// super(input, dbg, new RecognizerSharedState());
//<if(profile)>
//   Profiler p = (Profiler)dbg;
//   p.setParser(this);
//<endif>
// /parserCtorBody()
// <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
//}<
>>

createListenerAndHandshake() ::= <<
{
// DEBUG MODE code
//
// pANTLR3_DEBUG_EVENT_LISTENER proxy;
proxy = antlr3DebugListenerNew();
proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory, (pANTLR3_UINT8)ctx->getGrammarFileName());

<if(TREE_PARSER)>
proxy->adaptor = ADAPTOR;
<endif>
PARSER->setDebugListener(PARSER, proxy);

// Try to connect to the debugger (waits forever for a connection)
//
proxy->handshake(proxy);

// End DEBUG MODE code
//
}
>>

@rule.preamble() ::= <<
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
if ( getRuleLevel()==0 )
{
DBG->commence(DBG);
}
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);

>>

@rule.postamble() ::= <<

DBG->location(DBG, <ruleDescriptor.EORNodeno.line>, <ruleDescriptor.EORNodeno.column>);<\n>
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
deRuleLevel();
if ( getRuleLevel()==0 )
{
    DBG->terminate(DBG);
}
</n>
>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"

@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::= 
    "DBG->enterSubRule(DBG, <decisionNumber>);<\n>"

exitSubRule() ::= 
    "DBG->exitSubRule(DBG, <decisionNumber>);<\n>"

enterDecision() ::= 
    "DBG->enterDecision(DBG, <decisionNumber>);<\n>"

exitDecision() ::= 
    "DBG->exitDecision(DBG, <decisionNumber>);<\n>"

enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= 
    "<enterSubRule()> <enterDecision()>"

@block.postdecision() ::= 
    "<exitDecision()>

@block.postbranch() ::= 
    "<exitSubRule()>

@ruleBlock.predecision() ::= 
    "<enterDecision()>"

@ruleBlock.postdecision() ::= 
    "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= 
    "<enterAlt(n="1")>

@blockSingleAlt.prealt() ::= 
    "<enterAlt(n="1")>

@positiveClosureBlock.preloop() ::= 
    "<enterSubRule()>"
@positiveClosureBlock.postloop() ::= "<exitSubRule()>
" 

@positiveClosureBlock.predecision() ::= "<enterDecision()>
" 

@positiveClosureBlock.postdecision() ::= "<exitDecision()>
" 

@positiveClosureBlock.earlyExitException() ::= "DBG->recognitionException(DBG, EXCEPTION);<\n>
" 

@closureBlock.preloop() ::= "<enterSubRule()>
" 

@closureBlock.postloop() ::= "<exitSubRule()>
" 

@closureBlock.predecision() ::= "<enterDecision()>
" 

@closureBlock.postdecision() ::= "<exitDecision()>
" 

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::= "DBG->location(DBG, <it.line>, <it.pos>);"

@matchSet.mismatchedSetException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM, &cdfa<decisionNumber>);
if  (HASEXCEPTION())
{
DBG->recognitionException(DBG, EXCEPTION);
goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>
>>

cyclicDFA.errorMethod() ::= <<
//static void
//dfaError(p<name> ctx)
//{
// // DBG->recognitionException(DBG, EXCEPTION);
// //}
//>

/** Force predicate validation to trigger an event */
evalPredicate(pred.description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")

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*/

/** Templates for building ASTs during normal parsing.
 * 
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

group ASTParser;
@rule.setErrorReturnValue() ::= <<
    retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
    <super.tokenRef(...>)
    <if(backtracking)>if ( BACKTRACKING==0 ) {<endif>
    <label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
    ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
    <if(backtracking)>}<endif>
    >>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)">

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
    <super.tokenRef(...>)
    <if(backtracking)>if ( BACKTRACKING==0 ) {<endif>
    <label>_tree = <createNodeFromToken(...)>
    root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
    <if(backtracking)>}<endif>
    >>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
    <tokenRefBang(...>)
    <listLabel(elem=label,...)>>
    >>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
    <tokenRef(...>)
    <listLabel(elem=label,...)>>
    >>

/** label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
    <tokenRefRuleRoot(...>)
    <listLabel(elem=label,...)>>
    >>

// SET AST
// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  <super.matchSet(..., postmatchCode={if(backtracking)>if ( BACKTRACKING==0 ) <endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>;})>;

>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>

>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <if(label)>
  <label>=(<labelType>)LT(1);<\n>
  <endif>
  <super.matchSet(..., postmatchCode={if(backtracking)>if ( BACKTRACKING==0 ) <endif>root_0 =
    (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));})>

>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>>
  <if(backtracking)>if ( BACKTRACKING==0 ) <endif>ADAPTOR->addChild(ADAPTOR, root_0, <label>.tree);

>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>


/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabelAST(...>)
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>
  <listLabelAST(...>)
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabelAST(...>)
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
  <super.wildcard(...)>
  <if(backtracking)>if ( BACKTRACKING==0 ) {<endif>
    <label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
    ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
  <if(backtracking)>}<endif>
  </label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
  ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
  <if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(label,elementIndex) ::= <<
  <super.wildcard(...)>
  <if(backtracking)>if ( BACKTRACKING==0 ) {<endif>
  <label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
  root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
  <if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
  <if(hetero)>
  <hetero>New(<label>) <! new MethodNode(IDLabel) !>
  <else>
  (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
  </else>
>>
ruleCleanUp() ::= <<
<super.ruleCleanUp(...)>
<if(backtracking)>
if ( BACKTRACKING==0 ) {<
<endif>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<
<endif>
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
<if(backtracking)>
} 
<endif>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{stream_<it>->free(stream_<it>);}; separator="\n">
>>

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*/

group AST;

    @outputFile.imports() ::= <<
        @@super.imports()>
    >>

    @genericParser.members() ::= <<
        @@super.members()>
        <parserMembers()>
    >>
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  {!protected TreeAdaptor adaptor = new CommonTreeAdaptor();<!}
setTreeAdaptor: function(adaptor) {
  this.adaptor = adaptor;
  <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}> goto
},
getTreeAdaptor: function() {
  return this.adaptor;
},
>>

@returnScope.ruleReturnMembers() ::= <<
getTree: function() { return this.tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  var root_0 = null;<
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <ruleDescriptor.tokenLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites:
    {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites:
    {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables:
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
  <if(autoAST)>
  <if(!rewriteMode)>
    root_0 = this.adaptor.nil();
  <endif>
  <endif>
  <endif>
  <endif>
  <endif>
  <endif>
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>
  <! Track implies no auto AST construction!>
  <if(backtracking)>if ( this.state.backtracking===0 ) <endif>stream_<token>.add(<label>);
</
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefTrack(...>)
  <listLabel(elem=label,...)></
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>
  <if(backtracking)>if ( this.state.backtracking===0 ) <endif>stream_<token>.add(<label>);
</
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRootTrack(...)>
  <listLabel(elem=label,...)></
>>

wildcardTrack(label,elementIndex) ::= <<
  <super.wildcard(...)>
</
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( this.state.backtracking===0 ) <endif>stream_<rule.name>.add(<label>.getTree());
</
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefTrack(...)>
  <listLabel(elem=label+".getTree()",...)></
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( this.state.backtracking===0 ) <endif>stream_<rule>.add(<label>.getTree());
>>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>
// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if ( this.state.backtracking===0 ) {<\n>
<endif>
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = this.adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
this.adaptor.getChildIndex(retval.start),
this.adaptor.getChildIndex(_last),
retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;

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<else>
<if(!rewriteMode)>
<prevRuleRootRef().tree = root_0;>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>);};
  separator="\n"
>
<referencedTokenListLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>", list_<it>);};
  separator="\n"
>
<referencedRuleLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token
<it>",<it>!=null?<it>.tree:null);};
  separator="\n"
>
<referencedRuleListLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",list_<it>);};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref’d element
 *  list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext(); separator="\""> ) {
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}
>>
rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
    // <fileName>:<description>
    while ( <referencedElements:{el | stream_<el>.hasNext(); separator="||"> ) {
      <alt>
    }
    <referencedElements:{el | stream_<el>.reset();<\n> }>
  >>

rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
    if (!<referencedElements:{el | stream_<el>.hasNext(); separator="||">}) { 
      throw new org.antlr.runtime.tree.RewriteEarlyExitException();
    }
    while ( <referencedElements:{el | stream_<el>.hasNext(); separator="||"> } {
      <alt>
    }
    <referencedElements:{el | stream_<el>.reset();<\n> }>
  >>

rewriteAlt(a) ::= <<
  // <a.description>
  <if(a.pred)>
  if (<a.pred>) {
    <a.alt>
  }<\n>
  <else>
  {
    <a.alt>
  }<\n>
  <endif>
  >>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root, children, description, enclosingTreeLevel, treeLevel) ::= <<
  // <fileName>:<description>
  {
    var root_<treeLevel> = this.adaptor.nil();
  >>
<root:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
} \n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());\n>
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token,...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token,...>), root_<treeLevel>);\n>
/** plain -> {foo} action */
rewriteAction(action) ::= <<<
root_0 = <action>;<\n>
>>>
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator="","><endif>)
<else>
this.adaptor.create(<tokenType>, <args; separator="",">
<if(!args)"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator="","><endif>)
<else>
<if(args)<! must create new node from old !>
this.adaptor.create(<token>, <args; separator="",">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

Found in path(s):
*/ /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/antlr/codegen/templates/JavaScript/AST.stg
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*/

/** Templates for building ASTs during normal parsing.  
 * 
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 * 
 * The situation is not too bad as rewrite (->) usage makes ^ and !  
 * invalid. There is no huge explosion of combinations.
 * */
group ASTParser;

finishedBacktracking(block) ::= <<
<if(backtracking)>
if self._state.backtracking == 0:
  <block>
<else>
  <block>
<endif>
>>

@rule.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>  
<finishedBacktracking(
  <label>_tree = <createNodeFromToken(...)>  
  self._adaptor.addChild(root_0, <label>_tree)
 )>>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})
>>
/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)
<labelList(elem=label,...)
>>
/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)
<labelList(elem=label,...)
>>
/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)
<labelList(elem=label,...)
>>
// SET AST
// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={self._adaptor.addChild(root_0,
<createNodeFromToken(...)>)})
>>
matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)
>>
matchSetBang(s,label,elementIndex,postmatchCode) := "<super.matchSet(...)">

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B)...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(..., postmatchCode={<finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}>})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
<listLabel(elem=label+.tree,...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+.tree",")
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+.tree",")
>>
// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>._tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>._tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>">

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>._tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>._tree, root_0)
})>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero>(<label>) ! new MethodNode(IDLabel) !
<else>
self._adaptor.createWithPayload(<label>)
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>
>>

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
jar/org/antlr/codegen/templates/Python/ASTParser.stg
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
group AST;

/** Add an adaptor property that knows how to build trees */
@headerFile.members() ::= <<
/* @headerFile.members() */
pANTLR3_BASE_TREE_ADAPTOR adaptor;
pANTLR3_VECTOR_FACTORY vectors;
/* End @headerFile.members() */
>>

/** Install the tree adaptor interface pointer and anything else that
 * tree parsers and producers require.
 */
@genericParser.apifuncs() ::= <<
@if(PARSER)
ADAPTOR = ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);
@endif
ctx->vectors = antlr3VectorFactoryNew(64);
>>

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
@if(PARSER)
/* We created the adaptor so we must free it */
ADAPTOR->free(ADAPTOR);
@endif
>>
@returnScope.ruleReturnMembers() ::= <<

<recognizer.ASTLabelType>tree;

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;<
>>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;<
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:
    {[pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;]; separator="\n"}>
<ruleDescriptor.allRuleRefsInAltsWithRewrites:
    {[pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;]; separator="\n"}>
>>

ruleLabelInitializations() ::= <<
<super.ruleLabelInitializations()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:
    {[stream_<it> = antlr3RewriteRule<rewriteElementType>StreamNewAE(ADAPTOR, RECOGNIZER,
    (pANTLR3_UINT8)"token <it>"); ]; separator="\n"}>
<ruleDescriptor.allRuleRefsInAltsWithRewrites:
    {[stream_<it>=antlr3RewriteRuleSubtreeStreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"rule
    <it>"); ]; separator="\n"}>
<if(ruleDescriptor.hasMoreMultipleReturnValues)
retval.tree = NULL;
<endif>
>>

/** a rule label including default value */
ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)
<label.label.text>.tree = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;\n>>
/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@endif
@endif
>>

@alt.initializations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
    root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
@endif
@endif
@endif
>>

// Tracking Rule Elements

/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
    <tokenRefBang(...)>
    <! Track implies no auto AST construction!>
@if(backtracking)
    if ( BACKTRACKING==0 ) <endif>
    stream_<token>->add(stream_<token>, <label>, NULL);
@endif
>>

/** ids+='ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
    <tokenRefTrack(...)>
    <listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
    <tokenRefBang(...)>
@if(backtracking)
    if ( BACKTRACKING==0 ) <endif>
    stream_<token>->add(stream_<token>, <label>, NULL);
@endif
>>
wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
@if(backtracking)>if ( BACKTRACKING==0 ) <endif>stream_<rule.name>->add(stream_<rule.name>,
<label>.tree, NULL);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)
<label>.tree, NULL);
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
@if(backtracking)>if ( BACKTRACKING==0 ) <endif>stream_<rule.name>->add(stream_<rule.name>,
<label>.tree, NULL);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)
<label>.tree, NULL);
>>

// RULE REF AST

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)
<label>.tree, NULL);
>>

/* How to accumulate lists when we are doing rewrite tracking... */
listLabelTrack(label) ::= <<
/* listLabelTrack(label)
*/
if (list_<label> == NULL)
/* How to accumulate lists of rule outputs (only allowed with AST
* option but if the user is going to walk the tree, they will want
* all their custom elements from rule returns.
*
* Normally, we use inline structures (which the compiler lays down
* code to copy from heap allocations. However, here we want to accumulate copies
* of the returned structures because we are adding them to a list. This only makes sense if the
* grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure
* returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to
* do a tree re-write, then the user may wish to iterate the structures returned by the rule in
* action code and will expect the user defined returns[] elements to be available when they do this.
* Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide
* a function that can free the allocated space. We cannot know how to free user allocated elements and
* presume that the user will know to do this using their own factories for the structures they allocate.
*/
listLabelAST(label) ::= <<
if (list_<label> == NULL)
{
  list_<label>=ctx->vectors->newVector(ctx->vectors);
}
{
  RETURN_TYPE_<label> * tcopy;

tcopy = ANTLR3_CALLOC(1, sizeof(RETURN_TYPE_<label>)); /* Note no memory allocation checks! */
ANTLR3_MEMMOVE((void *)(tcopy), (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
list_<label>->add(list_<label>, tcopy, freeScope); /* Add whatever the return type is */
}
>>

// R e w r i t e

rewriteCode(
  alts,
  description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  rewriteBlockLevel,
  enclosingTreeLevel,
  treeLevel) ::=
/* AST REWRITE
* elements        : <referencedElementsDeep; separator="",">
* token labels    : <referencedTokenLabels; separator="",">
* rule labels     : <referencedRuleLabels; separator="",">
* token list labels: <referencedTokenListLabels; separator="",">
* rule list labels: <referencedRuleListLabels; separator="",">
*/

<if(backtracking)>
if ( BACKTRACKING==0 ) {
<endif>
{
<rewriteCodeLabelsDecl()>
<rewriteCodeLabelsInit()>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<prevRuleRootRef().tree = root_0;
<alts:rewriteAlt(); separator="else "
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
 ADAPTOR->getChildIndex(ADAPTOR, retval.start),
 ADAPTOR->getChildIndex(ADAPTOR, _last),
 retval.tree);
<endif>
<endif>
<prevRuleRootRef().tree = root_0; // set result root
<rewriteCodeLabelsFree()>

}

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
 :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
 separator="\n"
>
<referencedTokenListLabels
 :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
 separator="\n"
>
<referencedRuleLabels
 :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
 separator="\n"
>
<referencedRuleListLabels
 :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};

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/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
{
if ( <referencedElementsDeep:{el | stream_<el>->hasNext(stream_<el>)}; separator="||"> )
{
<alt>
}
<referencedElementsDeep:{el | stream_<el>->reset(stream_<el>);\n}>}
}}
rewriteClosureBlock(alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
{
while ( <referencedElements:{el | stream_<el>->hasNext(stream_<el>)}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>->reset(stream_<el>);\n}>}
}\
>>
RewriteEarlyExitException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>>
rewritePositiveClosureBlock(alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if ( !(<referencedElements:{el | stream_<el>->hasNext(stream_<el>)}; separator="||">) )
{

}}
<RewriteEarlyExitException()>
}
else
{
while ( <referencedElements:{el | stream_<el>->hasNext(stream_<el>)}; separator="||"> ) {
<alt>
}
<referencedElements:{el | stream_<el>->reset(stream_<el>);<\n>}>
}
>>

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>)
{
 <a.alt>
}<\n>
#else
{
 <a.alt>
}<\n>
@endif
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* \-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>::<description>
{
 <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
 <root:rewriteElement()>
 <children:rewriteElement()>
  ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= ". <elements:rewriteElement()>

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[<args>] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label>->nextNode(stream_<label>));
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label>->nextNode(stream_<label>));
>>

/** Gen ^(label ... *) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label>-
>nextToken(stream_<label>), root_<treeLevel>));
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^([ID ...] or ^([ID][args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createRewriteNodeFromElement(...)>, root_<treeLevel>));
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createImaginaryNode(tokenType=token, ...)>, root_<treeLevel>));
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"
rewriteRuleRef(rule, dup) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule>-nextTree(stream_<rule>));</n>
>>

rewriteRuleRefRoot(rule, dup) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule>-nextNode(stream_<rule>), root_<treeLevel>));</n>
>>

rewriteNodeAction(action) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);</n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));</n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label>-nextTree(stream_<label>));</n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label>-nextTree(stream_<label>));</n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<label>-nextNode(stream_<label>), root_<treeLevel>));</n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(stream_<label>-nextNode(stream_<label>), root_<treeLevel>));</n>
>>

createImaginaryNode(tokenType, hetero, args) ::= <<
#if <length(args)> == 2

createRewriteNodeFromElement(token,hetero,args) ::= <<
  <if(hetero)>
    <hetero>New(stream_<token>-nextToken(stream_<token>)<if(args)>, <args; separator="","><endif>)
  <else>
    <if(args)><! must create new node from old !>
    #if
    <length(args)>
    == 2
    ADAPTOR->createTypeTokenText(ADAPTOR, <token>-get<if(args)> Token(<token>, TOKTEXT(<token>, <args; separator="",")), TokenType>) /* JIMI */
    #else
    ADAPTOR->createTypeToken(ADAPTOR, TokenType)
    endif
  </else>
  <if(args)>
  <endif>
  <endif>

  #if<length(args)>
  == 2
  ADAPTOR->createTypeTokenText(ADAPTOR, TokenType)
  <token>-getToken(<token>, TOKTEXT(<token>, <args; separator="","), TokenType)) /* JIMI */
  #else
  ADAPTOR->createTypeToken(ADAPTOR, TokenType)
  endif

  <if(token)>
  stream_<token>-nextNode(stream_<token>)
  <endif>

  endif

  >>

  Found in path(s):
  */opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/C/AST.stg
  No license file was found, but licenses were detected in source scan.

  */

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/** Templates for building ASTs during normal parsing.
 * * Deal with many combinations. Dimensions are:
 * * Auto build or rewrite
 * * no label, label, list label  (label/no-label handled together)
 * * child, root
 * * token, set, rule, wildcard
 * *
 * * The situation is not too bad as rewrite (->) usage makes ^ and !
 * * invalid. There is no huge explosion of combinations.
 */

group ASTParser;

@rule.setErrorReturnValue() ::= <<
// Conversion of the second argument necessary, but harmless
retval.Tree = (<ASTLabelType>) adaptor.ErrorNode(input, (IToken) retval.Start, input.LT(-1), re);
%! System.Console.WriteLine("<ruleName> returns " + ((CommonTree)retval.Tree).ToStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label> _tree = <createNodeFromToken(...)>; 
adaptor.AddChild(root_0, <label> _tree);
<if(backtracking)>
}
<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if ( state.backtracking == 0 )
{
<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>
}
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)
<labelList(elem=label,...)>>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)
<labelList(elem=label,...)>>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)
<labelList(elem=label,...)>>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
The code generator call matchSet then add root code or ruleroot code
plus list label plus ... The combinations might require complicated
rather than just added on code. Investigate that refactoring when
I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<-
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( state.backtracking == 0 )
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);})>-
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<-
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= ">super.matchSet(...)"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B)[C]

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<-
<if(label)>
<label>=(<labelType>)input.LT(1);<n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( state.backtracking == 0 )
<endif>root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>), root_0;})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<-
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking == 0 ) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<-
<super.ruleRef(...)
<if(backtracking)>if ( state.backtracking == 0 ) <endif>root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<-
<ruleRef(...)>

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/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...>)
  <listLabel(elem=label+".Tree",...>)
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+".Tree",...>)
>>

// WILDCARD AST
wildcard(label,elementIndex) ::= <<
  <super.wildcard(...>)
  <if(backtracking)>
  if ( state.backtracking == 0 )
  {
    <endif>
    <label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
    adaptor.AddChild(root_0, <label>_tree);
    <if(backtracking)>
  }
  <endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...")>

wildcardRuleRoot(label,elementIndex) ::= <<
  <super.wildcard(...>)
  <if(backtracking)>
  if ( state.backtracking == 0 )
  {
    <endif>
    <label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
    root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
    <if(backtracking)>
  }
  <endif>
>>

createNodeFromToken(label,hetero) ::= <<
  <if(hetero)>
  new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
  (<ASTLabelType>)adaptor.Create(<label>)
<endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if>(backtracking)>
    if ( state.backtracking==0 )
    {
      <endif>
      retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
      <if>(!TREE_PARSER)>
        adaptor.SetTokenBoundaries(retval.Tree, (IToken) retval.Start, (IToken) retval.Stop);
      <endif>
      <if>(backtracking)>
    }
  <endif>
>>

Found in path(s):
  */opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
  jar/org/antlr/codegen/templates/CSharp2/ASTParser.stg
  */opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
  jar/org/antlr/codegen/templates/CSharp/ASTParser.stg
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OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected ITreeAdaptor adaptor = new CommonTreeAdaptor();
public ITreeAdaptor TreeAdaptor
{
    get { return this.adaptor; }
    set {
        this.adaptor = value;
        <grammar.directDelegates:{g|<g:delegateName>().TreeAdaptor = this.adaptor;}>    
    }
}
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
private <ASTLabelType> tree;
override public object Tree
{
    get { return tree; }
    set { tree = (<ASTLabelType>) value; }
}
>>

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*/
ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{RewriteRule<rewriteElementType>Stream stream_<it> = new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
@if(autoAST)  
@if(outerAlt)  
@if(!rewriteMode)  
root_0 = (<ASTLabelType>)adaptor.GetNilNode();<\n>
@if(autoAST)  
@if(outerAlt)  
@if(!rewriteMode)  
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<token>.Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>  
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>

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/** Match ^label+=TOKEN ... track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>}
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>}
>>

/** ^rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>}
>>

// Rewrite

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
// AST REWRITE
// elements:  referencedElementsDeep; separator="",">
// token labels:  referencedTokenLabels; separator="",">
// rule labels:  referencedRuleLabels; separator="",">
// token list labels:  referencedTokenListLabels; separator="",">
// rule list labels:  referencedRuleListLabels; separator="",">

@if(backtracking)
if ( state.backtracking==0 ) {

@endif

<prevRuleRootRef()>.Tree = root_0;

<rewriteCodeLabels()>

root_0 = (<ASTLabelType>)adaptor.GetNilNode();

<alt:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
@if(TREE_PARSER)
@if(rewriteMode)
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
    adaptor.GetChildIndex(retval.Start),
    adaptor.GetChildIndex(_last),
    retval.Tree);

@endif
@endif

<! if parser or rewrite!=true, we need to set result !>
@if(!TREE_PARSER)
@if(!rewriteMode)
<prevRuleRootRef()>.Tree = root_0;

@endif
@if(!rewriteMode)
<prevRuleRootRef()>.Tree = root_0;

@endif
@if(backtracking)}

@endif

>>

rewriteCodeLabels() ::= <<

<referencedTokenLabels
    :([RewriteRule<rewriteElementType>Stream stream_<it> = new
        RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);});
        separator="\n"
> }

<referencedTokenListLabels
    :([RewriteRule<rewriteElementType>Stream stream_<it> = new
        RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",list_<it>);});
        separator="\n"
> }

<referencedRuleLabels

}}

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/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements,     // elements in immediately block; no nested blocks
  description) ::= <<
  // <fileName>:<description>
  if ( <referencedElementsDeep:{el | stream_<el>.HasNext()}; separator=" || "> )
  {
    <alt>
  }
  <referencedElementsDeep:{el | stream_<el>.Reset();\\n}> >>

rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements,     // elements in immediately block; no nested blocks
  description) ::= <<
  // <fileName>:<description>
  while ( <referencedElements:{el | stream_<el>.HasNext()}; separator=" || "> )
  {
    <alt>
  }
  <referencedElements:{el | stream_<el>.Reset();\\n}> >>

rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements,     // elements in immediately block; no nested blocks
  description) ::= <<
  if ( !(<referencedElements:{el | stream_<el>.HasNext()}; separator=" || "> ) )
  {
    <alt>
  }
  <referencedElements:{el | stream_<el>.Reset();\\n}> >>

: [RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "token <it>", (<it>!=null ? <it>.Tree : null));];
  separator="\\n"
>
<referencedRuleListLabels
  : [RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "token <it>", list_<it>);];
  separator="\\n"
> >>
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext()}; separator=" || "> )
{
    <alt>
}
<referencedElements:{ el | stream_<el>.Reset();\n }>

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>)
{
    <a.alt>
}<\n>
@else
{
    <a.alt>
}<\n>
@endif
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.GetNilNode();
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>
/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= "<<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n>>"
/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= "<<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n>>"
/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= "<<
root_<treeLevel> = (ASTLabelType) adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);\n>>"
/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot :: rewriteTokenLabelRefRoot
/** Gen ^(ID ...) or ^(ID[ args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= "<<
root_<treeLevel> = (ASTLabelType) adaptor.BecomeRoot(createRewriteNodeFromElement(...),
root_<treeLevel>);\n>>"
rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= "<<
adaptor.AddChild(root_<treeLevel>, createImaginaryNode(tokenType=token, ...));\n>>"
rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= "<<
root_<treeLevel> = (ASTLabelType) adaptor.BecomeRoot(createImaginaryNode(tokenType=token, ...),
root_<treeLevel>);\n>>"
/** plain -> {foo} action */
rewriteAction(action) ::= "<<
root_0 = <action>;\n>>"
/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "retval"
rewriteRuleRef(rule) ::= "<<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());\n>>"
rewriteRuleRefRoot(rule) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
  adaptor.AddChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
  <if(hetero)>
  <! new MethodNode(IDLabel, args) !>
  new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
  <else>
  (<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)">tokenType"<endif>)
  <endif>
  <endif>

createRewriteNodeFromElement(token,hetero,args) ::= <<
  <if(hetero)>
  new <hetero>(stream_<token>.NextToken(<if(args)>, <args; separator=", "><endif>)
  <else>
  <if(args)>
  <! must create new node from old !>
  adaptor.Create(<token>, <args; separator=", ">)
  </if(args)>
  </else>
  </if(hetero)>

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/*
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
group CSharp2 implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
          docComment, recognizer,
          name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::=
<<

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<if(actions.(actionScope).namespace)>
// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 168, 219
// Unreachable code detected.
#pragma warning disable 162
namespace <actions.(actionScope).namespace>
{
<endif>

<actions.(actionScope).header>

<@imports>
using System;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
using IList = System.Collections.IList;
using ArrayList = System.Collections.ArrayList;
using Stack = Antlr.Runtime.Collections.StackList;
<if(backtracking)>
using IDictionary = System.Collections.IDictionary;
using Hashtable = System.Collections.Hashtable;
<endif>

<@end>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
    filterMode, superClass="Lexer") ::= <<
public partial class <grammar.recognizerName> : <@superClassName> <superClass> <@end> {
    <tokens:{public const int <it.name> = <it.type>;}; separator="n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}
    <actions.lexer.members>

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// delegates
<grammar.delegates:
{g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"}

// delegators
<grammar.delegators:
{g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"}
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

public <grammar.recognizerName>() <! needed by subclasses !>
{
InitializeCyclicDFAs();
}

public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName>
<g:delegateName()>}>)
: this(input, null<grammar.delegators:{g|, <g.recognizerName>
<g:delegateName()>}>) { }

public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName>
<g:delegateName()>}>)
: base(input, state) { }
InitializeCyclicDFAs(); <! Necessary in C#?? Not removed yet. !>
<if(memoize)>
<if(grammar.grammarIsRoot)>
state.ruleMemo = new Hashtable[numRules]+1];\n> <! index from 1..n !>
<endif>
<endif>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|
<p:delegateName()>}>, this);}; separator="\n"
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>}

override public string GrammarFileName
{
get { return ","fileName";};
}
<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n"}

<synpreds:{p | <lexerSynpred(p)> }>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n"}
private void InitializeCyclicDFAs()
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
*
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
override public IToken NextToken()
{
  while (true)
  {
    if ( input.LA(1) == (int)CharStreamConstants.EOF )
    {
      return Token.EOF_TOKEN;
    }
    state.token = null;
    state.channel = Token.DEFAULT_CHANNEL;
    state.tokenStartCharIndex = input.Index();
    state.tokenStartCharPositionInLine = input.CharPositionInLine;
    state.tokenStartLine = input.Line;
    state.text = null;
    try
    {
      int m = input.Mark();
      state.backtracking = 1; <! means we won't throw slow exception !>
      state.failed = false;
      mTokens();
      state.backtracking = 0;
    }
    mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1.
  }
  if ( state.failed )
  
}
{  
    input.Rewind(m);  
    input.Consume(); <! // advance one char and try again !>
}

{  
    Emit();  
    return state.token;  
}

catch (RecognitionException re)
{
    // shouldn't happen in backtracking mode, but...
    ReportError(re);
    Recover(re);
}

override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if ( state.backtracking > 1 )
        base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if ( state.backtracking > 1 )
        return base.AlreadyParsedRule(input, ruleIndex);
    return false;
}

filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,  
    bitsets, inputStreamType, superClass,  
    ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
    public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
    {
    <if(grammar.grammarIsRoot)>
        public static readonly string[] tokenNames = new string[]  
        {
            "\<invalid>",  
            "\<EOR>",  
            "\<DOWN>",  
            "\<UP>",  
            "\<UP>",  
        }
    </if>
    override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
    {
    
    
    }
    
    
    
    

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// delegates
<grammar.delegates:{g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
package com.example.parser;

import java.util.Hashtable;
import java.util.ArrayList;

public class ParserCtorBody {
    public void initializeCyclicDFAs()
    {
        cyclicDFAs = new ArrayList();
        cyclicDFAs.add(new DFA.DFA());
        cyclicDFAs.add(new DFA.DFA());
    }

    public void parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser", labelType="IToken", members={<actions.parser.members>})
    {
        genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)
    }

    /** How to generate a tree parser; same as parser except the input
     * stream is a different type.
     */
    public void parserCtorBody() {
        initializeCyclicDFAs();
        if(memoize) {
            if(grammar.grammarIsRoot) {
                this.state.ruleMemo = new Hashtable[length(grammar.allImportedRules)+1];
            }
        }
        <grammar.delegators:
            {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
    }

    /!
    public void generateRule/method definitions for imported rules so they
    appear to be defined in this recognizer. !/
    // Delegated rules
    <grammar.delegatedRules:
        {ruleDescriptor:
            public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException
            {
                if(ruleDescriptor.hasReturnValue) {
                    return<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributess:{a|<a.name>}; separator=",">);
                }
                separator="\n">
        }
    }

    <cyclicDFAs:
        {dfa:
            protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
    private void InitializeCyclicDFAs()
    {
        <cyclicDFAs:
            {dfa:
                this.dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">
        <cyclicDFAs:
            {dfa:
                <if(dfa.specialStateSTs)>
                    this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);
                </if>
            }); separator="\n">
    }

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

    <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
        words64=it.bits)>
    }

    parserCtorBody() ::= <<
        InitializeCyclicDFAs();
        <if(memoize)>
            <if(grammar.grammarIsRoot)>
                this.state.ruleMemo = new Hashtable[length(grammar.allImportedRules)+1];
            </if>
        </if>
        <grammar.delegators:
            {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
    >>

    parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser", labelType="IToken", members={<actions.parser.members>}) ::= <<
        <genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
    >>

    /** How to generate a tree parser; same as parser except the input
     * stream is a different type.
     */
}
/*
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={ <ASTLabelType> }, ASTLabelType="object", superClass="TreeParser",
members={ <actions.treeparser.members> }) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
    // $ANTLR start "<ruleName>"
    public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)> ) {
        <ruleLabelDefs()>
        <if(trace>)
            TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
        try
            {
                <block>
            } finally
            {
                TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
            }
        }<else>
        <block>
        <endif>
    }
    // $ANTLR end "<ruleName>"
>>

synpredDecls(name) ::= <<
    SynPredPointer <name>;<n>
>>

synpred(name) ::= <<
    public bool <name>()
    {
        state.backtracking++;
        #@start()
        int start = input.Mark();
        try
        {

    /*
```java
    _fragment(); // can never throw exception
}
catch (RecognitionException re)
{
    Console.Error.WriteLine("impossible: "+re);
}
bool success = !state.failed;
input.Rewind(start);
@stop() 
state.backtracking--;
state.failed = false;
return success;
}<
>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( (state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>) )
{
    return <ruleReturnValue>();
}
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)
if (state.failed) return <ruleReturnValue>();
@endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)if ( state.backtracking > 0 ) {state.failed = true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule. This includes any return type * data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
// $ANTLR start "+ruleName" 
// <fileName>::description
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws

```
RecognitionException [1]
{
   <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
   <ruleScopeSetUp()>
   <ruleDeclarations()>
   <ruleLabelDefs()>
   <ruleDescriptor.actions.init>
   @preamble()
   try
   {
   <ruleMemoization(name=ruleName)>
   <block>
   <ruleCleanUp()>
   <(ruleDescriptor.actions.after):execAction()>
   }
   <if(exceptions)>
   <exceptions:{e|<catch(decl=e.decl,action=e.action)><
   >}
   <else>
   <if(!emptyRule)>
   <if(actions.(actionScope).rulecatch)>
   <actions.(actionScope).rulecatch>
   <else>
   catch (RecognitionException re)
   {
   ReportError(re);
   Recover(input,re);
   @setErrorReturnValue()>
   }<\n>
   <endif>
   <endif>
   <endif>
   finally
   {
   <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
   <memoize()>
   <ruleScopeCleanUp()>
   <finally>
   }
   @postamble()
   return <ruleReturnValue>();

   // $ANTLR end "<ruleName>" >>

catch(decl,action) ::= <<
catch (<e.decl>)
{
   <e.action>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType>();
retval.Start = input.LT(1);<
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}|>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_StartIndex = input.Index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
:{<labelType> <it.label.text> = null;}; separator="\n" 
>
[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
:{IList list_<it.label.text> = null;}; separator="\n" 
>
[ruleDescriptor.ruleListLabels,ruleLabelDef(label=it); separator="\n"]
<ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
[ruleDescriptor.tokenLabels, 
ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleListLabels]
:{<labelType> <it.label.text> = null;}; separator="\n" 
>
[ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n"]
[ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleListLabels, 
ruleDescriptor.ruleListLabels]
LexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= "\n" // $ANTLR start "ruleName"
public void m\n\n    // throws RecognitionException [2]
    {
        <ruleAttributeScope>scope=ruleDescriptor.ruleScope>
        <if(trace)>TraceIn("ruleName", <ruleDescriptor.index>);<endif>
        <ruleScopeSetUp()>
        <ruleDeclarations()>
        try
        
        ruleReturnValue() ::= "\n        \n        <if(!ruleDescriptor.isSynPred)>
        <if(ruleDescriptor.hasReturnValue)>
        <if(ruleDescriptor.hasSingleReturnValue)>
        <ruleDescriptor.singleValueReturnName>
        <else>
        retval
        <endif>
        <endif>
        <endif>
        "\n        >>

        ruleCleanUp() ::= "\n                \n                <if(ruleDescriptor.hasMultipleReturnValues)>
                <if(!TREE_PARSER)>
                retval.Stop = input.LT(-1);\n                <endif>
                <endif>
                "\n                >>

        memoize() ::= "\n        \n        <if(memoize)>
        <if(backtracking)>
        if ( state.backtracking > 0 )
        {
            Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
        }
        <endif>
        <endif>
        "\n        >>

        /** How to generate a rule in the lexer; naked blocks are used for
         * fragment rules.
         */
        lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= "\n                // $ANTLR start "ruleName"
        public void m\n                {
        <ruleAttributeScope>scope=ruleDescriptor.ruleScope>
        <if(trace)>TraceIn("ruleName", <ruleDescriptor.index>);<endif>
        <ruleScopeSetUp()>
        <ruleDeclarations()>
        try
        
        Open Source Used In Cisco Vision Dynamic Signage Director 6.4 2301
/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
    <block>

    }
}

// $ANTLR end "ruleName"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
    <block>

    }
}

// $ANTLR end "ruleName"
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alt<decisionNumber>.maxK,maxAlt,description) ::= <<
    int alt<decisionNumber> = <maxAlt>;
    <decls>
    @@predecision()
    <decision>
>>

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/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= 
    int alt<decisionNumber> = <maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
        <alts:altSwitchCase()>
    }
    <@postbranch()>
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= 
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= 
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= 
    // <fileName>:<description>
    int cnt<decisionNumber> = 0;
    <decls>
    <@preloop()>
    do

```csharp
{ int alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>)
  {
  <alts:altSwitchCase()>
  default:
    if ( cnt<decisionNumber> >= 1 ) goto loop<decisionNumber>;
    <ruleBacktrackFailure()>
    EarlyExitException eee =
      new EarlyExitException(<decisionNumber>, input);
    <@earlyExitException()>
    throw eee;
  }
  cnt<decisionNumber>++;
} while (true);

loop<decisionNumber>:
  // Stops C# compiler whinging that label 'loop<decisionNumber>' has no statements
  <@postloop()>
  >>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>::<description>
  <decls>
  <@preloop()>
  do
  {
    int alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    default:
      goto loop<decisionNumber>;
    }
  } while (true);

loop<decisionNumber>:
  // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
```
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase() ::= <<
  case <i> :
    <@prealt()>
    <it>
    break;<
  >>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description>
  {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
  }
  >>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
  <@prematch()>
  <it.el><
  >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)><label>=<labelType>)<endif>Match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex >); <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>)
  <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
  if (list_<label> == null) list_<label> = new ArrayList();
  list_<label>.Add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  <endif>
  Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  <endif>
  MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
mismatchSet(s,label,elementIndex,postmatchCode="") ::= <<
  <if(label)>
  <if(LEXER)>
  <label> = input.LA(1);
  <else>
  <label> = (<labelType>)input.LT(1);
  <endif>
  <endif>
  if ( <s> )
  {
    input.Consume();
    <postmatchCode>
    <if(!LEXER)>
    state.errorRecovery = false;
    <endif>
  }
<if(backtracking)>state.failed = false;<endif>
}
else
{
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
    <if(LEXER)>
        Recover(mse);
        throw mse;
    <else>
        throw mse;
    <endif>
    <!
    use following code to make it recover inline; remove throw mse;
    RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
    <endif>
} \n
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet( ...)>
    <listLabel(elem=label, ...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
    <if(label)>
        int <label>Start = CharIndex;
        Match(<string>); <checkRuleBacktrackFailure()>
        <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
        <label>Start, CharIndex-1);
    <else>
        Match(<string>); <checkRuleBacktrackFailure()><\n
    <endif>
>>

wildcard(label,elementIndex) ::= <<
    <if(label)>
    <label> = (<labelType>)input.LT(1);<\n
    <endif>
    MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
    <wildcard( ...)>
    <listLabel(elem=label, ...)>
>>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> = <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<endif>
state.followingStackPointer--;
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);

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lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
 lexerRuleRef(...)>
 <listLabel(elem=label,...)>
 >>

lexerMatchEOF(label, elementIndex) ::= <<
 <if(label)>
 int <label>Start<elementIndex> = CharIndex;
 Match(EOF); <checkRuleBacktrackFailure()> 
 <labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
 <label>Start<elementIndex>, CharIndex-1);
 <else>
 Match(EOF); <checkRuleBacktrackFailure>()
 <endif>
 >>

/* match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
 <root:element()> 
 <actionsAfterRoot:element()> 
 <if(nullableChildList)> 
 if ( input.LA(1) == Token.DOWN )
{
 Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()> 
 <children:element()> 
 Match(input, Token.UP, null); <checkRuleBacktrackFailure()> 
}
 <else>
 Match(input, Token.DOWN, null); <checkRuleBacktrackFailure>()
 <children:element()> 
 Match(input, Token.UP, null); <checkRuleBacktrackFailure>()
 <endif>
 >>

/** Every predicate is used as a validating predicate (even when it is 
 * also hoisted into a prediction expression).
validateSemanticPredicate(pred, description) ::= <<
if ( !(evalPredicate(...) ) )
{
  ruleBacktrackFailure()
  throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
  if(eotPredictsAlt)
    alt<decisionNumber> = <eotPredictsAlt>;
  else
    ruleBacktrackFailure()
    NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
      new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    @noViableAltException()
    throw nvae_d<decisionNumber>s<stateNumber>;<\n>
  endif
}
}
>>

/** Same as a normal DFA state except that we don't examine lookahead */
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure */
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for '(' on the end of a rule
* anything other than ')' predicts exiting.
*/
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
<<
if(eotPredictsAlt)
<if(!$edges$)
alt<$decisionNumber$>=$<eotPredictsAlt$>; \! \! if no edges, don't gen ELSE !>
<else>
else
{
  alt<$decisionNumber$> = $<eotPredictsAlt$>;
}
\n<endif>
<endif>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<$decisionNumber$> = \langle alt\rangle;$"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr$>) <if(predicates$)>&& (<predicates$>) <endif$>)
{
  <targetState$>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k$>) )
{
<edges; separator="\n"$>
  default:
    <if(eotPredictsAlt$>)
      alt<$decisionNumber$> = $<eotPredictsAlt$>;
      break;
    <else>
      <ruleBacktrackFailure$>
      NoViableAltException nvae_d$<decisionNumber$s\langle stateNumber$\rangle = 
        new NoViableAltException("$description$", <decisionNumber$>, <stateNumber$>, input);$\n
      <@noViableAltException$>
      throw nvae_d$<decisionNumber$s\langle stateNumber$;$\n
    <endif>
  }\n
}<n$>
>>
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dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) )
{
    <edges; separator="\n">
    <if(eotPredictsAlt)>
    default:
        alt<decisionNumber> = <eotPredictsAlt>;
        break;<\n>
    <endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
{
    <targetState>
    }
    break;
}<\n>
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
alts<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables. */
cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\"+\n \"">";
const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\"+\n \"">";

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const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\"\"">";
const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\"\"">}>
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|"<s; wrap="\"\"">"}; separator="\n"}>
};
static readonly short[] DFA<dfa.decisionNumber>_eot = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min = DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max = DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition = DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{
    <@debugMember()>
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
    {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }
    <@dbgCtor()>

    override public string Description
    {
        get { return "<dfa.description>"; }
    }
    <@errorMethod()>
}
protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input) //throws NoViableAltException
{
    if(LEXER)
    IllnStream input = _input;
    endif
    if(PARSER)
    ITokenStream input = (ITokenStream)_input;
    endif
    if(TREE_PARSER)
    ITreeNodeStream input = (ITreeNodeStream)_input;
    endif
    int _s = s;
    switch ( s )
    {
        <dfa.specialStateSTs:{state |
            case <i0> : <! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">
    }
    if(backtracking)
    if (state.backtracking > 0) {state.failed = true; return -1;}<\n>
    endif
    NoViableAltException nvae =
    new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae);
    throw nvae;
} <\n>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index();
input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse">
<if(semPredState) <! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s >= 0 ) return s;
break;
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) && (<predicates>) ) { s = <targetStateNumber>; } <<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;; <<
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "((first(operands) <rest(operands): {o | || <o> }) )"

notPredicate(pred) ::= "!(<evalPredicate( ... )>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>) <<
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >= <lower> && input.LA(<k>) <= <upper>)"

setTest(ranges) ::= "<ranges; separator=" || ">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
protected class <scope.name>._scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="\n"}
}
protected Stack <scope.name>._stack = new Stack();

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>._scope
{
    <scope.attributes:{protected internal <it.decl>;}; separator="\n"}
}
protected Stack <scope.name>._stack = new Stack();
<endif>
>>

returnStructName() ::= "<it.name>._return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
*  values.
*/
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>._return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>
delegateName() ::= <<
  <if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
  <ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
  <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<un>
>>

/** Define a return struct for a rule if the code needs to access its
*  start/stop tokens, tree stuff, attributes, ... Leave a hole for
*  subgroups to stick in members.
*/
returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  public class <ruleDescriptor:returnStructName()> :
  <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
  {
    <scope.attributes:{public <it.decl>;}; separator="\n">
      <@ruleReturnMembers()>
    }
  <endif>
>>

parameterScope(scope) ::= <<
  <scope.attributes:{<it.decl>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
  <if(negIndex)>
  ([(scope)_scope]<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name>
  <else>
  ([(scope)_scope]<scope>_stack[<index>]).<attr.name>
  <else>
  ([(scope)_scope]<scope>_stack.Peek()).<attr.name>
  <endif>
>>
<endif>
>>

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_scope)_stack[<index>]).<attr.name> = <expr>;
<else>
((<scope>_scope)_stack.Peek()).<attr.name> = <expr>;
<endif>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
*  to stack itself not top of stack. This is useful for predicates
* like { $function.size()>0 && $function::name.equals("foo") }?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> != null) ? <scope>.<attr.name> : <initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor, attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>;
<else>
<attr.name> = <expr>;
<endif>
>>

/** How to translate $TokenLabel */
tokenLabelRef(label) ::= "<label>"
/** ids+=ID {ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((<scope>!=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "((<scope> != null) ? ((<labelType>)<scope>.Start) : null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<scope> != null) ? ((<labelType>)<scope>.Stop) : null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<scope> != null) ? ((<ASTLabelType>)<scope>.Tree) : null)"
ruleLabelPropertyRef_text(scope,attr) ::= "<<
<if(TREE_PARSER)>
((<scope> != null) ? input.TokenStream.ToString(
    input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
    input.TreeAdaptor.GetTokenStopIndex(<scope>.Start)) : null)
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.Start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.Stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope,attr) ::= "<<
<if(TREE_PARSER)>
input.TokenStream.ToString(}"
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start) }
<else>
input.ToString((IToken)retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> )
{
<action>
}
<else>
if ( state.backtracking == 0 )
{
<action>
}
<endif>
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

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bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] { <words64> { <it>UL}; separator = "" });</n>
>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg

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*/
group AST;

@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
import org.antlr.runtime.tree.*;</n>
@genericParser.members() ::= <<
<@super.members()>
<parsersMembers()>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
} 
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public Object getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{RewriteRule<rewriteElementType>Stream stream_<it>=new
    RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<token>.add(<label>);

>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)> 

>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<token>.add(<label>);

>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)> 

>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>

>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<rule.name>.add(<label>.getTree());

>>
/** x+=rule when output=AST and tracking for rewrite */
ruleRefRuleRootTrackAndListLabel(rule.label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...>)
<label>.getTree()",...>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootLabel(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<label>.getTree()",...>

// R e w r i t e

rewriteCode(
    alts, description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,
    referencedRuleLabels,
    referencedRuleListLabels,
    rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

    // AST REWRITE
    // elements: <referencedElementsDeep; separator="",">
    // token labels: <referencedTokenLabels; separator="",">
    // rule labels: <referencedRuleLabels; separator="",">
    // token list labels: <referencedTokenListLabels; separator="",">
    // rule list labels: <referencedRuleListLabels; separator="",">
    <if(backtracking)
    if ( state.backtracking==0 ) {<
    <endif>
    <prevRuleRootRef()>.tree = root_0;
    <rewriteCodeLabels()>
    root_0 = (<ASTLabelType>)adaptor.nil();
    <alts:rewriteAlt(); separator="else ">
    <! if tree parser and rewrite=true !>
    <if(TREE_PARSER)>
    <if(rewriteMode)
    <prevRuleRootRef()>.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
    input.replaceChildren(adaptor.getParent(retval.start),}
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),
retval.tree);

<endif>
<endif>

<!-- if parser or tree-parser && rewrite!=true, we need to set result !-->
<if(!TREE_PARSER)>
<prevRuleRootRef>().tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef>().tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", <it>);};
  separator="\n"
>
<referencedTokenListLabels
  :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>);};
  separator="\n"
>
<referencedRuleLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>",<it>!="null? <it>.tree: null);};
  separator="\n"
>
<referencedRuleListLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>);};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
rewriteClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    // <fileName>:<description>
    while ( referencedElements:{el | stream_<el>.hasNext(); separator=""} ) {   
        <alt>
    }
    referencedElements:{el | stream_<el>.reset();\n}>
>>

rewritePositiveClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    // <fileName>:<description>
    while ( referencedElements:{el | stream_<el>.hasNext(); separator=""} ) {   
        <alt>
    }
    referencedElements:{el | stream_<el>.reset();\n}>
>>

rewriteAlt(a) ::= <<
    // <a.description>
    if(a.pred)
    if (a.pred) {
        <a.alt>
    }
    else {
        <a.alt>
    }
@endif
>>
/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  // <fileName>::<description>
  {
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  }>
>>
rewriteElementList(elements) ::= "<elements:rewriteElement()>
rewriteElement(e) ::= <<
  <@pregen()>
  <e.el>
>>

 /** Gen ID or ID[<args>] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
  adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<
  >>

 /** Gen $<label> ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
  adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<
  >>

 /** Gen $<label> ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
  adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<
  >>

 /** Gen ^($<label> ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<
  >>

 /** Gen ^($<label> ... where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

 /** Gen ^(ID ...) or ^(ID[<args>] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
  root_<treeLevel>);<
  >>
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*/ Gen $(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>>

/* Gen $(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>>

createImaginaryNode(tokenType, hetero, args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)> , <args; separator=", "><endif>)
<else>
(<ASTLabelType>) adaptor.create(<tokenType>, <args; separator=", ">"<if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token, hetero, args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)> , <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/Java/AST.stg
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New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the format that mimicks GCC output.

group gnu;

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4.jar/org/antlr/tool/templates/messages/formats/gnu.stg

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interface ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code. */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals);

/** The header file; make sure to define headerFileExtension() below */
optional
headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals);

lexer(grammar, name, tokens, scopes, rules, numRules, labelType,
filterMode, superClass);

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, ASTLabelType, superClass,
labelType, members);

/** How to generate a tree parser; same as parser except the input stream is a different type. */
/*
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, labelType, ASTLabelType,
    superClass, members);

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock);

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize);

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize);

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor);

filteringNextToken();

filteringActionGate();

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A (...)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description)
n);

positiveClosureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,
description);

/** A (...) block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

closureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** Optional blocks (x)? are translated to (x|) by before code generation
  * so we can just use the normal block template
  */
optionalBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

optionalBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew);

// ELEMENTS

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero);

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero);

listLabel(label,elem);

/** match a character */
charRef(char,label);

/** match a character range */
charRangeRef(a,b,label);

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode);

matchSetAndListLabel(s,label,elementIndex,postmatchCode);

/** Match a string literal */
lexerStringRef(string,label);

wildcard(label,elementIndex);
wildcardAndListLabel(label, elementIndex);

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex);

wildcardCharListLabel(label, elementIndex);

/** Match a rule reference by invoking it possibly with arguments */
ruleRef(rule, label, elementIndex, args, scope);

/** ids+=ID */
ruleRefAndListLabel(rule, label, elementIndex, args, scope);

/** A lexer rule reference */
lexerRuleRef(rule, label, args, elementIndex, scope);

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope);

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex);

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel);

/** Every predicate is used as a validating predicate (even when it is */
* also hoisted into a prediction expression). */
validateSemanticPredicate(pred, description);

// Fixed DFA (if-then-else)
dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState);

/** Same as a normal DFA state except that we don't examine lookahead */
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
* */
dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState);

/** A DFA state that is actually the loopback decision of a closure
/* loop. If end-of-token (EOT) predicts any of the targets then it
   * should act like a default clause (i.e., no error can be generated).
   * This is used only in the lexer so that for ('a')* on the end of a
   * rule anything other than 'a' predicts exiting.
   *
   * If a semPredState, don't force lookahead lookup; preds might not
   * need.
   */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt);

/** A simple edge with an expression. If the expression is satisfied,
   * enter to the target state. To handle gated productions, we may
   * have to evaluate some predicates for this edge.
   */
dfaEdge(labelExpr, targetState, predicates);

// F i x e d  D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
   * decides if this is possible: CodeGenerator.canGenerateSwitch().
   */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaEdgeSwitch(labels, targetState);

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
   * in the rule to predict an alt just like the fixed DFA case.
   * 'The <name> attribute is inherited via the parser, lexer, ...
   */
dfaDecision(decisionNumber,description);

/** Generate the tables and support code needed for the DFAState object
   * argument. Unless there is a semantic predicate (or syn pred, which
   * become sem preds), all states should be encoded in the state tables.
   * Consequently, cyclicDFAState/cyclicDFAEdge,eotDFAEdge templates are
   * not used except for special DFA states that cannot be encoded as
   * a transition table.
   */
cyclicDFA(dfa);
/** A special state in a cyclic DFA; special means has a semantic predicate
 * or it's a huge set of symbols to check.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState);

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful. Again, this is for special
 * states.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates);

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
etDFAEdge(targetStateNumber, edgeNumber, predicates);

// DFA EXPRESSIONS

andPredicates(left, right);

orPredicates(operands);

notPredicate(pred);

evalPredicate(pred, description);

evalSynPredicate(pred, description);

lookaheadTest(atom, k, atomAsInt);

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom, k, atomAsInt);

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt);

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt);

setTest(ranges);

// ATTRIBUTES

parameterAttributeRef(attr);

parameterSetAttributeRef(attr, expr);

scopeAttributeRef(scope, attr, index, negIndex);
scopeSetAttributeRef(scope, attr, expr, index, negIndex);

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.size()>0 && function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope);

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr);

returnAttributeRef(ruleDescriptor, attr);
returnSetAttributeRef(ruleDescriptor, attr, expr);

/** How to translate $tokenLabel */
tokenLabelRef(label);

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label);

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope, attr);
tokenLabelPropertyRef_type(scope, attr);
tokenLabelPropertyRef_line(scope, attr);
tokenLabelPropertyRef_pos(scope, attr);
tokenLabelPropertyRef_channel(scope, attr);
tokenLabelPropertyRef_index(scope, attr);
tokenLabelPropertyRef_tree(scope, attr);

ruleLabelPropertyRef_start(scope, attr);
ruleLabelPropertyRef_stop(scope, attr);
ruleLabelPropertyRef_tree(scope, attr);
ruleLabelPropertyRef_text(scope, attr);
ruleLabelPropertyRef_st(scope, attr);

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabelRef(label);

lexerRuleLabelPropertyRef_type(scope, attr);
lexerRuleLabelPropertyRef_line(scope, attr);
lexerRuleLabelPropertyRef_pos(scope, attr);
lexerRuleLabelPropertyRef_channel(scope, attr);
lexerRuleLabelPropertyRef_index(scope, attr);
lexerRuleLabelPropertyRef_text(scope, attr);

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr);
rulePropertyRef_stop(scope, attr);
rulePropertyRef_tree(scope, attr);
rulePropertyRef_text(scope, attr);
rulePropertyRef_st(scope, attr);

lexerRulePropertyRef_text(scope, attr);
lexerRulePropertyRef_type(scope, attr);
lexerRulePropertyRef_line(scope, attr);
lexerRulePropertyRef_pos(scope, attr);
/** Undefined, but present for consistency with Token attributes; set to -1 */
lexerRulePropertyRef_index(scope, attr);
lexerRulePropertyRef_channel(scope, attr);
lexerRulePropertyRef_start(scope, attr);
lexerRulePropertyRef_stop(scope, attr);

ruleSetPropertyRef_tree(scope, attr, expr);
ruleSetPropertyRef_st(scope, attr, expr);

/** How to execute an action */
execAction(action);

// M I S C (properties, etc...)

codeFileExtension();

/** Your language needs a header file; e.g., ".h" */
optional headerFileExtension();

true();
false();

Found in path(s):
  */opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/antlr/codegen/templates/ANTLRCore.sti

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

/*
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*/
group Cpp implements ANTLRCore;

cppTypeInitMap ::= [ "int":"0", "long":"0", "float":"0.0", "double":"0.0", "bool":"false", "byte":"0", "short":"0", "char":"0", default:"0" // anything other than an atomic type ]

// What we generate lexer/parser/treeparser, used a suffix in a few places
generatedType() ::= <<
  <if(LEXER)>Lexer<endif><if(PARSER)>Parser<endif><if(TREE_PARSER)>TreeParser<endif>
>>

leadIn(type) ::= <<
  /** 
   * This <type> file was generated by ANTLR version <ANTLRVersion>
   *
   * - From the grammar source file : <fileName>
   * - On : <generatedTimestamp>
   *
   * - for the lexer : <name><
   *</endif>
   <endif>
   <endif>
standardHeaders() ::= 
<<
#include \antlr3\generatedType().h

#if(profile)
#warning "No profiling support..."
#endif

#if(TREE_PARSER)
#warning "No tree parsing yet..."
#endif

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
         docComment, recognizer,
         name, tokens, tokenNames, rules, cyclicDFAs,
         bitsets, buildTemplate, profile,
         backtracking, synpreds, memoize, numRules,
         fileName, ANTLRVersion, generatedTimestamp, trace,
         scopes, superClass) ::= 
<<
<leadIn("C++ source")>
@@includes
#include "<name><headerFileExtension()>
@end>
@if(actions.(actionScope).header>
// Header action start ================================================
<actions.(actionScope).header>
// Header action end ================================================
@end>

<headerAction>

<standardHeaders()>

<docComment>
<recognizer>
>>
template<typename StreamType, typename TokenType, typename TokenBuilder>
class <name> : public antlr3::Lexer<StreamType,TokenType,TokenBuilder> {

    // carry over general types
    typedef typename StreamType::position_type position_type;
    typedef typename StreamType::char_type char_type;
    typedef antlr3::tokenid_type               tokenid_type;
    typedef antlr3::channel_type               channel_type;
    typedef antlr3::decision_type              decision_type;
    // exception shorthands
    typedef antlr3::MismatchException<position_type,char_type>        MismatchException;
    typedef antlr3::MismatchedRangeException<position_type,char_type> MismatchedRangeException;
    typedef antlr3::MismatchedSetException<position_type,char_type>   MismatchedSetException;
    typedef antlr3::EarlyExitException<position_type>       EarlyExitException;
    typedef antlr3::NoViableAltException<position_type>     NoViableAltException;

    // @TODO backtracking ruleMemo = new HashMap[<numRules>+1];

    public:

    <tokens:{static const tokenid_type <tokenPrefix()><it.name> = <it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}
    <actions.lexer.members>

    <name>(StreamType* input)
    : antlr3::Lexer<StreamType,TokenType,TokenBuilder>(input)
    {
    }

    <if(filterMode)>
    <!filteringNextToken()!>
    <endif!

    // syn preds
    <synpreds:{p | <lexerSynpred(p)> }>

    // cyclic dfa's
    <cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">

    // class <name>
    >>
headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass
) ::= <<
#ifndef _<name>_H
#define _<name>_H
<leadIn("C++ header")>
<actions.(actionScope).headerfile>

<@includes>
<standardHeaders()>
<@end>

@if(LEXER)>
<lexerHeaderFile()>
@end>
@if(PARSER)>
<parserHeaderFile()>
@end>
@if(TREE_PARSER)>
<treeParserHeaderFile()>
@end>
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
     filterMode) ::= <<

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !!>

>>

filteringNextToken() ::= <<
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        this->token = 0;
        tokenStartCharIndex = getCharIndex();
        try {
            int m = input.mark();
            backtracking=1; <! means we won't throw slow exception !!>
            failed=false;
            mTokens();
            backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !!>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !!>
            } else {
                return token;
            }
        } catch (RecognitionException re) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
}
public void memoize(IntStream input, int ruleIndex, int ruleStartIndex)
{
if ( backtracking > 1 )
    super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex)
{
if ( backtracking > 1 )
    return super.alreadyParsedRule(input, ruleIndex);
return false;
}

filteringActionGate() ::= "backtracking == 1"

/** How to generate a parser */
genericParser(
    grammar, name, scopes, tokens, tokenNames, rules, numRules, cyclicDFAs,
    bitsets, inputStreamType, superClass, ASTLabelType="Object",
    labelType, members
) ::= <<
    // genericParser
class <name> : public <@superClassName><superClass><@end> {
public:
    static const char* tokenNames[] = {
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator="",
    };
    <tokens:{static tokenid_type <tokenPrefix()><it.name>=<it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> <globalAttributeScope(scope=it)> <endf}>
    <members>

    <name>(StreamType* input)
    : <superClass>\<StreamType,TokenType>(input)
    {
    <if(backtracking)>
        ruleMemo = new HashMap[<numRules>+1];<\n> <! index from 1..n !>
    <endif>
    }
    <@end>

    //@TODO public String[] getTokenNames() { return tokenNames; }
    //@TODO public String getGrammarFileName() { return "<fileName>"; }
    <members>

    <rules; separator="\n\n">

    <synpreds:{p | synpred(p)}>
<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this); separator="\n">  
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
};
>

parser(
    grammar, name, scopes, tokens, tokenNames,
    rules, numRules, bitsets, ASTLabelType,
    superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction,
    rules, numRules,
    bitsets,
    labelType={<ASTLabelType>}, ASTLabelType="Object",
    superClass="TreeParser", members={<actions.treeparser.members>}
) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws RecognitionException {
<if(trace)>System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
<endif>
try {
    <block>
}
finally {
    System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
}
<else>
<block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public boolean <name>() {
    this->backtracking++;
    <@start()>
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = ! this->failed;
    input.rewind(start);
    <@stop()>
    this->backtracking--;
    this->failed = false;
    return success;
} \n
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)>
if ( backtracking > 0 && alreadyParsedRule(input, <ruleDescriptor.index>) )
return <ruleReturnValue>();
@endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>
if (failed)
return <ruleReturnValue>();
@endif>
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>
  if (backtracking > 0)
  {
    failed = true;
    return <ruleReturnValue>();
  }
  <endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(scope=ruleDescriptor.returnScope)>
  // $ANTLR start <ruleName>
  // <fileName>:<description>
  public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  throw(antlr3::BaseRecognitionException)
  {
    <if(trace)>
    antlr3::Tracer trace(this,"<ruleName>");
    System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
    <endif>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    try {
    <ruleMemoization(name=ruleName)>
    <block>
    }<if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
    <else>
    catch (RecognitionException re) {
    reportError(re);
    recover(input,re);
    }<\n>
    <endif>
    <endif>
  }<if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}
  <else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
  <else>
  catch (RecognitionException re) {
  reportError(re);
  recover(input,re);
  }<\n>
catch(decl, action) ::= <<
catch (e.decl) {
    e.action
}
>>

ruleDeclarations() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n"> <ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n"> <if(ruleDescriptor.hasMultipleReturnValues)><returnType()> retval = new <returnType>();
    retval.start = input.LT(1);
</if>
<else><ruleDescriptor.returnScope.attributes:{ a |<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; </if>
</ruleDescriptor.returnScope.attributes>
;if(memoize)> int <ruleDescriptor.name>_StartIndex = input.index(); <ruleDescriptor.name>_StartIndex = input.index();
</if(memoize)> >>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels.ruleDescriptor.tokenListLabels> :{<labelType> <it.label.text>=null;}; separator="\n" > <ruleDescriptor.tokenListLabels.ruleDescriptor.ruleListLabels> :{List list_<it.label.text>=null;}; separator="\n" > <ruleDescriptor.ruleLabels.ruleDescriptor.ruleListLabels> :ruleLabelDef(label=it); separator="\n" > <ruleDescriptor.allRuleRefsInAltsWithRewrites.ruleDescriptor.allTokenRefsInAltsWithRewrites> :{List list_<it>=new ArrayList();}; separator="\n" >
ruleReturnValue() ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnName>
  <else>
  retval
  <endif>
  <endif>
  <endif>
>>

ruleCleanUp() ::= <<
  <ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
  <ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.stop = input.LT(-1);<
  </endif>
  <if(memoize)>
  <if(backtracking)>
  if ( backtracking > 0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
  <endif>
  <endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  throw(antlr3::BaseRecognitionException)
  {
  <if(trace)>
  antlr3::Tracer trace(this,"<ruleName>");
  <endif>
  antlr3::CountScope nestingTracker(this->ruleNestingLevel);
  StreamType& input(this->getInput());
  <if(nakedBlock)>
  <ruleDescriptor.actions.init>
  <ruleMemoization(name=ruleName)>
  <block><
  </else>
  tokenId_type type = <tokenPrefix()><ruleName>;
  channel_type channel = antlr3::Token::DEFAULT_CHANNEL;
  position_type start(input.getPosition());
  <ruleDescriptor.actions.init>
/* How to generate code for the implicitly-defined lexer grammar rule */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
  void mTokens() throw(antlr3::BaseRecognitionException)
  {
    StreamType& input(this->getInput());
    <<
  }
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,
      maxK,maxAlt,description) ::= <<
  // block <fileName>:<description>
  decision_type alt<decisionNumber>=<maxAlt>;
  <<
  <decals>
  <@predecision()>
  <<
  decision
  <@postdecision()>
  <@prebranch()>
  switch (alt<decisionNumber>) {
    <<
    <alts:altSwitchCase()>
    +
    <@postbranch()>
  }
  <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // ruleBlock <fileName>:<description>
  decision_type alt<decisionNumber>=<maxAlt>;
  <<
  <decals>
  <@predecision()>

/* ! create token if none exists *and* we are an outermost token rule !*/
<execAction({if ( this->token == 0 && this->ruleNestingLevel == 1 ) {
    TokenType *tt = TokenBuilder::build(type,start,input,channel);
    std::cout << (*tt) << std::endl;
    this->emit(tt);
   }}
  )>
<<
开关（alt<decisionNumber>）{
    <alts:altSwitchCase()>
}
}

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// ruleBlockSingleAlt <fileName>:<description>
<decls>
    <@prealt()>
    <alts>
    <@postalts()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
    <@prealt()>
    <alts>
    <@postalts()>
>>

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// positiveClosureBlock <fileName>:<description>
decision_type cnt<decisionNumber>=0;
<decls>
    <@preloop()>
    do {
        decision_type alt<decisionNumber>=<maxAlt>;
        <@predecision()>
        <decision>
        <@postdecision()>
        switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
        default :
            if ( cnt<decisionNumber> >= 1 )
                goto loop<decisionNumber>;
            EarlyExitException eee( input.getPosition(), <decisionNumber> );
            <@earlyExitException()>
                throw eee;
        }
        cnt<decisionNumber>++;    
    } while (true);
    loop<decisionNumber>: ;
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (...) block with 1 or more alternatives */
closureBlock(alt,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // closureBlock <fileName>:<description>
  <decls>
  <preloop()>
  do {
    decision_type alt<decisionNumber>=<maxAlt>;
    <predecision()>
    <decision>
    <postdecision()>
    switch (alt<decisionNumber>) {
      <alts:altSwitchCase()>
      default :
        goto loop<decisionNumber>;
    }
  } while (true);
  loop<decisionNumber>:
  <postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i> :
  <prealt()>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alts(alt,altNum,description,autoAST,outerAlt) ::= <<
// alt <fileName>:<description>
{
  <@declarations()>
  <elements:element()>
  <@cleanup()>
}
>

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
  // element <fileName>:<description>
  <@prematch()>
  <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex) ::= <<
  // tokenRef
  <if(label)>
  <label> = input.LT(1);<\n>
  <endif>
  this->match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID no AST building */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
  <tokenRef(...>)
  <listLabel(...)>
>>

listLabel(label) ::= <<
  if (list_<label>==null) list_<label>=new ArrayList();
  list_<label>.add(<label>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
  // charRef
  <if(label)>
  <tokenid_type()> <label> = input.LA(1);<\n>
  <endif>
  this->match(<char>);
  <checkRuleBacktrack Failure()>
>>
/** match a character range */
charRangeRef(a,b) ::= "this->matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
" 

/** For now, sets are interval tests and must be tested inline */
mismatchedSet(s,label,elementIndex,postmatchCode="") ::= <<
// matchSet
<if(label)>
<label> = input.LT(1);<
><endif>
if ( <s> )
{
<postmatchCode>
input.consume();
<if(!LEXER)>
errorRecovery=false;
<endif>
<if(!backtracking)>failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse(input.getPosition(),input.LA(1));
<@mismatchedSetException()>
<if(LEXER)>
this->recover(mse);
<else>
this->recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
throw mse;
}<
>>
mismatchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<mismatchSet(...)>
<listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
// lexerStringRef
<if(label)>
position_type <label>Start(input.getPosition());
this->match(<string>);
<checkRuleBacktrackFailure()>
TokenType* <label> =
TokenBuilder::build(Token.INVALID_TOKEN_TYPE, <label>Start,input,Token.DEFAULT_CHANNEL);
<else>
this->match(<string>);
>>

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wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = input.LT(1);<\n>
<endif>
this->matchAny( input );
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(…)>  
<listLabel(…)>
>>

/** Match . wildcard */
 wildcardChar(label, elementIndex) ::= <<
<if(label)>
<tokenid_type()> <label> = input.LA(1);<\n>
<endif>
this->matchAny();
<checkRuleBacktrackFailure()>
>>

tokenid_type() ::= "<if(LEXER)>char_type<else>tokenid_type<endif>"

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(…)>  
<listLabel(…)>
>>

/** Match a rule reference by invoking it possibly with arguments * and a return value or values. */
 ruleRef(rule,label,elementIndex,args) ::= <<
following.push(FOLLOW_<rule>_in_<ruleName><elementIndex>);
<if(label)>
<label>=<rule>(<args>);<\n>
<else>
<rule>(<args>);<\n>
<endif>
following.pop();
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
```cpp
ruleRefAndListLabel(rule, label, elementIndex, args) ::= <<
  <ruleRef(...)>
  <listLabel(>)
>>

/** A lexer rule reference */
lexerRuleRef(rule, label, args) ::= <<
  <if(label)>
    position_type <label>Start(input.getPosition());
    m<rule>(<args>);
    <checkRuleBacktrackFailure()>
    TokenType* <label> = TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
  <else>
    m<rule>(<args>);
    <checkRuleBacktrackFailure()>
  <endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label) ::= <<
  <if(label)>
    position_type <label>Start(input.getPosition());
    match(EOF);
    <checkRuleBacktrackFailure()>
    TokenType* <label> = TokenBuilder::build(Token.EOF,<label>Start,input,Token.DEFAULT_CHANNEL);
  <else>
    match(EOF);
    <checkRuleBacktrackFailure()>
  <endif>
>>

/** match ^(root children) in tree parser */
tree(root, children, nullableChildList) ::= <<
  <root:element()>
  <if(nullableChildList)>
    if ( input.LA(1)==antlr3::Token::DOWN ) {
      match(input, antlr3::Token::DOWN, null);
      <checkRuleBacktrackFailure()>
      <children:element()>
      match(input, antlr3::Token::UP, null);
      <checkRuleBacktrackFailure()>
    } else
      match(input, antlr3::Token::DOWN, null);
      <checkRuleBacktrackFailure()>
      <children:element()>
      match(input, antlr3::Token::UP, null);
  </endif>
>>
```
/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
  if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", ")description");
  }
>>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  <if(!semPredState)>
  <tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
  <endif>
  <edges; separator="\nelse ">
  else
  {<if(eotPredictsAlt)><alt<decisionNumber> = <eotPredictsAlt>;<\n>
  <else>
  <ruleBacktrackFailure()>
  NoViableAltException nvae(input.getPosition(), ")description"); <decisionNumber>, <stateNumber>);<\n>
  <@noViableAltException()>
  throw nvae;<\n>
  <endif>
  }
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  <if(!semPredState)>
  <tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
  <endif>
  <edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/

```c
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
@if(!semPredState)
<tokenid_type()> LA<decisionNumber>_stateNumber = input.LA(<k>);
@endif
<edges; separator="\nelse ">
@if(eotPredictsAlt)
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}
@endif
@endf
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>)
{
<targetState>
}
@endf
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n" default:
@if(eotPredictsAlt)
alt<decisionNumber> = <eotPredictsAlt>;
@endif
else
NoViableAltException nvae( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );<\n@
throw nvae;<\n@endf
}
@endf
>>
```
```c
dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    switch ( input.LA(<k>) ) {
        <edges; separator="\n">
    } <\n>
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    switch ( input.LA(<k>) ) {
        <edges; separator="\n">
        <if(eotPredictsAlt)>
            default:
            alt<decisionNumber> = <eotPredictsAlt>;
            break;<\n>
        </if>
    } <\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
    <labels:{case <it>:}; separator="\n"> {<targetState>
        break;
    } <\n>
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used */
/** in the rule to predict an alt just like the fixed DFA case. */
/** The <name> attribute is inherited via the parser, lexer, ... */
dfaDecision(decisionNumber, description) ::= <<
    // dfaDecision
    alt<decisionNumber> = predictDFA<decisionNumber>(input);
>>

/** The overall cyclic DFA chunk; contains all the DFA states */
cyclicDFA(dfa) ::= <<
    /* cyclicDFA=<dfa>
    */
    // cyclic = <dfa.cyclic>
    // numstates = <dfa.numberOfStates>

    // startState = <dfa.startState>
    // startState.numberOfTransitions = <dfa.startState.NumberOfTransitions>
    // startState.lookaheadDepth = <dfa.startState.LookaheadDepth>

    const static short <name>dfa[<dfa.decisionNumber>_eot[<dfa.numberOfStates>]] = [
        <dfa.eot; wrap="\n        ", separator="","; null="-1">
const static short dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] = {
  <dfa.eof; wrap="\n   ", separator=".", null="-1"} 
};
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] = {
  <dfa.min; wrap="\n   ", separator=".", null="0"} 
};
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] = {
  <dfa.max; wrap="\n   ", separator=".", null="0"} 
};
const static short dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] = {
  <dfa.accept; wrap="\n   ", separator=".", null="-1"} 
};
const static short dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] = {
  <dfa.special; wrap="\n   ", separator=".", null="-1"} 
};
<dfa.edgeTransitionClassMap.keys:{ table |  
const static short dfa<dfa.decisionNumber>_transition<i0>[] = {
  <table; separator=" ", wrap="\n"}, null="-1"} 
};
}; null=""
const static short dfa<dfa.decisionNumber>_transition[] = {
  <dfa.transitionEdgeTables:{whichTable|<name>dfa<dfa.decisionNumber>_transition<whichTable>,}; separator="\n", null="0 /* fixme? */" 
};
<! add attribute for the DFA !>
DFA<char_type> dfa<dfa.decisionNumber>;  
<! this should go in the initializer of the thing
- (id) init
  
  if ((self = [super init]) != nil) {
    eot = <name>dfa<dfa.decisionNumber>_eot;
eof = <name>dfa<dfa.decisionNumber>_eof;
min = <name>dfa<dfa.decisionNumber>_min;
max = <name>dfa<dfa.decisionNumber>_max;
accept = <name>dfa<dfa.decisionNumber>_accept;
special = <name>dfa<dfa.decisionNumber>_special;
if (!(<transition = calloc(<dfa.numberOfStates>, sizeof(void*)))) {
  [self release];
  return nil;
}
<dfa.transitionEdgeTables:{whichTable|transition <i0>[]} =
  <name>dfa<dfa.decisionNumber>_transition<whichTable>;}; separator="\n", null=""} 
}
return self;
} 
!>
```c
int specialStateTransition( int state )
{
    int s = state;
    switch ( s ) {
        <dfa.specialStateSTs:{state | case <i0> : ! compressed special state numbers 0..n-1 !> <state> }; separator="\n">}
        <if(backtracking)> if ( recognizer.isBacktracking() ) {
            recognizer.setFailed();
            return -1;
        }\n        <endif>
        noViableAlt(s, input);
    }\n    <endif>

    // <dfa.description>
    decision_type predictDFA<dfa.decisionNumber>( StreamType& input )
    {
        /* mark current location (rewind automatically when the rewinder goes * out of scope */
        antlr3::Rewinder<position_type> markPoint(input.getPosition());
        goto s0; // goto start...
        // ...
        throw NoViableAltException( input.getPosition(), "<dfa.description>", <dfa.decisionNumber>, 0 /* fixme */ );\n    }\n
    /** A state in a cyclic DFA */
    cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
        // cyclicDFAState
        s<stateNumber>: { <if(semPredState)> input.rewind();\n        <else> <tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(1);
        <endif> <edges> <if(needErrorClause)> throw NoViableAltException( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );\n        <endif>\n    }\n```
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
// cyclicDFAEdge
if ( ((labelExpr) <if(predicates)>&& (<predicates>)<endif>)
{
    input.consume();
    goto s<targetStateNumber>;
}
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= "goto s<targetStateNumber>;"

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "((<first(operands)><rest(operands):o | ||<o>})"

notPredicate(pred) ::= "!(<pred>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_stateNumber==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_stateNumber\>=<lower> && LA<decisionNumber>_stateNumber\=<upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower>
&& input.LA(<k>)\=<upper>)"

setTest(ranges) ::= "<ranges; separator="||"">"

// ATTRIBUTES
globalAttributeScope(scope) ::= <<
@if(scope.attributes)>
protected static class <scope.name> {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>._stack = new Stack();
@endif>>

ruleAttributeScope(scope) ::= <<
@if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();
@endif>>

returnType() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>._return
@else>
@if(ruleDescriptor.singleValueReturnType)>
<ruleDescriptor.singleValueReturnType>
@else>
void
@endif
@endif>>

ruleLabelType(referencedRule) ::= <<
@if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>._return
@else>
@if(referencedRule.singleValueReturnType)>
<referencedRule.singleValueReturnType>
@else>
void
@endif
@endif>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
ruleLabelDef(label) ::= "<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;"
"
returnScope(scope) ::= "<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> {
    <labelType> start, stop;
    <if(buildAST)>
        <ASTLabelType> tree;
    <else>
    <if(buildTemplate)>
        StringTemplate st;
    <endif>
    <endif>
    <scope.attributes:{<it.decl>;}; separator="\n">;
    <endif>
"
"
parameterScope(scope) ::= "<scope.attributes:{<it.decl>}; separator="", ">"
"
/** Used in codegen.g to translate $x.y references.
* I could have left actions as StringTemplates to be inserted in
* the output (so they could use attributes inherited from surrounding
* templates), but really wanted to pass in AttributeScope and Attribute
* objects so this translation could query them. So, translation of
* $x.y to executable code occurs before recognizerST.toString() occurs.
* I.e., actions are just text strings during final code generation.
*/
globalAttributeRef(scope,attr) ::= "((<scope>_scope)<scope>_stack.peek()).<attr.name>
"
"
parameterAttributeRef(attr) ::= ""<attr.name>"
"
scopeAttributeRef(scope,attr,index,negIndex) ::= "<if(negIndex)>
( ( <scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
( ( <scope>_scope)<scope>_stack.elementAt(<index>).<attr.name>
<else>
/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like \{$f\rightarrow .size()>0 \&\& f\rightarrow .name.equals("foo")\}?
*/
isolatedDynamicScopeRef(scope) ::= "$\_stack$"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.singleValueReturnType)>
    $\_scope$
  <else>
    $\_scope$.<attr.name>
  <endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.singleValueReturnType)>
    <attr.name>
  <else>
    retval.<attr.name>
  <endif>
>>

/** How to translate $tokenLabel$ */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID [\$ids] or e+=expr [\$e] */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "$\_scope\.getText()$

tokenLabelPropertyRef_type(scope,attr) ::= "$\_scope\.getType()$

tokenLabelPropertyRef_line(scope,attr) ::= "$\_scope\.getLine()$

tokenLabelPropertyRef_pos(scope,attr) ::= "$\_scope\.getCharPositionInLine()$"

tokenLabelPropertyRef_channel(scope,attr) ::= "$\_scope\.getChannel()$

tokenLabelPropertyRef_index(scope,attr) ::= "$\_scope\.getTokenIndex()$

tokenLabelPropertyRef_tree(scope,attr) ::= "$\_tree$

ruleLabelPropertyRef_start(scope,attr) ::= "$\_scope\.start$

ruleLabelPropertyRef_stop(scope,attr) ::= "$\_scope\.stop$

ruleLabelPropertyRef_tree(scope,attr) ::= "$\_tree$"
ruleLabelPropertyRef_text(scope,attr) ::= "input.toString(<scope>.start,<scope>.stop)"
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
ex lexerRuleLabel(label) ::= "<label>

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= "input.toString(retval.start,input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

// ACTIONS
emit(type) ::= "emit(<type>);"

setType(type) ::= "setType(<type>);"

/** How to execute an action */
ex execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( actions.(actionScope).synpredgate )
{
 <action>
 }<else>
 <action>
 }<endif>
<else>
 <action>
 <endif>
>>

// MIS C (properties, etc...)

bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[]{<words64: {<it>L};separator=",">});

tokenPrefix() ::= "TOK_"
codeFileExtension() ::= ".cpp"
// used in CPPTarget.java to generate the headerfile extension
headerFileExtension() ::= ".h"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/CPP/CPP.stg
No license file was found, but licenses were detected in source scan.

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*/

/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label  (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

group ASTTreeParser;

finishedBacktracking(block) ::= <<
<if(backtracking)>
if self._state.backtracking == 0:
    <block>
<else>
    <block>
<endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
    _first_0 = None
    _last = None\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
    <if(rewriteMode)>
    retval.tree = _first_0
    if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
        retval.tree = self._adaptor.getParent(retval.tree)
    <endif>
})
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = self.input.LT(1)
    _save_last_<treeLevel> = _last
    _first_<treeLevel> = None
    <if(!rewriteMode)>
    root_<treeLevel> = self._adaptor.nil()\n>
    <endif>
<root:element()>
<if(rewriteMode)>
<finishedBacktracking({
<if(root.el.rule)>
if_first_enclosingTreeLevel is None:
_first_enclosingTreeLevel = root.el.label.tree
<else>
if_first_enclosingTreeLevel is None:
_first_enclosingTreeLevel = root.el.label
<endif>
})>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<else>
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<endif>
<if(!rewriteMode)>
self._adaptor.addChild(root_treeLevel, root_treeLevel)
<endif>
_last = _save_last_treeLevel
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
    _last = self.input.LT(1)
    <super.tokenRef(...)
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
    _last = self.input.LT(1)
    <super.tokenRef(...)
    <if(!rewriteMode)>
    <finishedBacktracking({
    <if(hetero)>

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<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})
<else> <! rewrite mode !>
<finishedBacktracking(
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label><\n>
})
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
<if(!rewriteMode)>
<finishedBacktracking(
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = self.input.LT(1)
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking(


<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>\n
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
}}
<endif>
}}
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite() >! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = self.input.LT(1)
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>\n
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
}}
<endif>
}}
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<finishedBacktracking(
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> <! rewrite mode !>
if _first_<treeLevel> is None:
_first_<treeLevel> = <label>.tree\n>
/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...))>
  <listLabel(elem=label+.tree"....)>>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRef(...))>
  <if(!rewriteMode)>
  <finishedBacktracking({
    root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
  })>
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <ruleRefRuleRoot(...))>
  <listLabel(elem=label+.tree"....)>>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrack(...))>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrackAndListLabel(...))>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrack(...))>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
stream高峰论坛 nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
})>
<endif>
>>

Found in path(s):
*/opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg

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*/

group ASTTreeParser;

/** match ^ (root children) in tree parser; override here to 
*  add tree construction actions. 
*/
tree(root, actionsAfterRoot, children, nullableChildList, 
enclosingTreeLevel, treeLevel) ::= <<
{
  <ASTLabelType> root_<treeLevel> = [treeAdapator newEmptyTree];
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( [input LA:1] == ANTLRTokenTypeDOWN ) {
      [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil; <checkRuleBacktrackFailure()>
      <children:element()>
      [self match:input tokenType:ANTLRTokenTypeUP follow:nil; <checkRuleBacktrackFailure()>
      }
    <else>
    [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input tokenType:ANTLRTokenTypeUP follow:nil; <checkRuleBacktrackFailure()>
    <endif>
    [root_<treeLevel> release];
  } <\n> 
>>

/** What to emit when there is no rewrite. For auto build 
*  mode, does nothing. 
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(rewriteMode)>retval.tree = (<ASTLabelType>)retval.start;<endif>
>>

// TOKEN AST STUFF

/** ID auto construct */
tokenRef(token,label,elementIndex) ::= <<
  <super.tokenRef(...)> 
  <if(backtracking)>if ( state.backtracking==0 ) { <endif>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  adaptor.addChild(root_<treeLevel>, <label>_tree);
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)> >>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
<super.tokenRef(...)>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<label>_tree = null;
if ( state.backtracking==0 ) {<endif>
<listLabel(elem=label,...)> }<endif> >>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)> >>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<label>_tree = null;
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<if(backtracking)>}<endif> >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)> >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<label>_tree = null;
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<label>_tree = null;
<if(backtracking)>}<endif> >>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
#error Heterogeneous tree support not implemented.
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-
jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg
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*/
/* in sync with Java/Java.stg revision 107 */

group Python implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code. */

outputFile(LEXER, PARSER, TREE_PARSER, actionScope, actions,
          docComment, recognizer,
          name, tokens, tokenNames, rules, cyclicDFAs,
          bitsets, buildTemplate, buildAST, rewriteMode, profile,
          backtracking, synpreds, memoize, numRules,
          fileName, ANTLRVersion, generatedTimestamp, trace,
          scopes, superClass, literals) ::= <<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<html imports>
import sys
from antlr3 import *
<html(TREE_PARSER)>
from antlr3.tree import *
<html endif>
from antlr3.compat import set, frozenset
<html end>

<html actions.(actionScope).header>
<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<html tokens:{<it.name>=<it.type>}; separator="\n">}

<html recognizer>
<html if(actions.(actionScope).main)>
<html actions.(actionScope).main>
<html else>
  def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<html if(LEXER)>
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>)
<html endif>
<html if(PARSER)>
    from antlr3.main import ParserMain
<html else>
    from antlr3.main import Main
<html endif>
<html>/html>
main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)
<endif>
<if(TREE_PARSER>)
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)
<endif>
    main.stdin = stdin
    main.stdout = stdout
    main.stderr = stderr
    main.execute(argv)
<endif>

<actions.(actionScope).footer>

if __name__ == '__main__':
    main(sys.argv)

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
<grammar.directDelegates:
    {g|from <g.recognizerName> import <g.recognizerName} ; separator="\n">

class <grammar.recognizerName>({@superClassName}<superClass>{@end}):<scopes:
    {<if(it.isDynamicGlobalScope)}<globalAttributeScope(scope=it){@endif}>
    grammarFileName = "<fileName>
    antlr_version = version_str_to_tuple("<ANTLRVersion>")
    antlr_version_str = "<ANTLRVersion>

    def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
        <@superClassName><superClass><@end>.__init__(self, input, state)
    <if(memoize)>
        <if(grammar.grammarIsRoot)>
            self._state.ruleMemo = {}
        <endif>
    <endif>
<grammar.directDelegates:
    {g|self.<g:delegateName>() = <g.recognizerName>(*trunc(g.delegators):{p|<p:delegateName()>}, })self, input, state)); separator="\n">
<grammar.delegators:
    {g|self.<g:delegateName>() = <g:delegateName>(); separator="\n">
<last(grammar.delegators):
    {g|self.gParent = <g:delegateName()}); separator="\n>
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return EOF_TOKEN
        self._state.token = None
        self._state.channel = DEFAULT_CHANNEL
        self._state.tokenStartCharIndex = self.input.index()
        self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
        self._state.tokenStartLine = self.input.line
        self._state._text = None
        try:
            m = self.input.mark()
            try:
                # means we won't throw slow exception
                self._state.backtracking = 1
                try:
                    self.mTokens()
                finally:
                    self._state.backtracking = 0
            finally:
                self._state.backtracking = 0
        finally:
            self._state.backtracking = 0
except BacktrackingFailed:
    # mTokens backtracks with synpred at backtracking==2
    # and we set the synpredgate to allow actions at level 1.
    self.input.rewind(m)
    self.input.consume()  # advance one char and try again

else:
    self.emit()
    return self._state.token

except RecognitionException, re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        <@superClassName><superClass>=<@end>.memoize(self, input, ruleIndex, ruleStartIndex, success)

    def alreadyParsedRule(self, input, ruleIndex):
        if self._state.backtracking > 1:
            return <@superClassName><superClass><@end>.alreadyParsedRule(self, input, ruleIndex)
        return False

    >>

filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="Object", labelType, members, rewriteElementType,
    init) ::= <<
    <if(grammar.grammarIsRoot)>
    # token names
    tokenNames = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
        <tokenNames; wrap, separator="", ">
    ]
    <endif>
    <if(grammar.grammarIsRoot)>
    from <grammar.composite.rootGrammar.recognizerName> import tokenNames
    <endif>
<grammar.directDelegates:
[\g|from <g.recognizerName> import <g.recognizerName}]; separator="\n">
<rules:{ <ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)> }>

class <grammar.recognizerName>(<superClass>):
    grammarFileName = "<fileName>">
    antlr_version = version_str_to_tuple("<ANTLRVersion>"
    antlr_version_str = "<ANTLRVersion>"
    tokenNames = tokenNames

    def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input, state=None):
        if state is None:
            state = RecognizerSharedState()

        <superClass>.__init__(self, input, state)

        <if(memoize)>
        <if(grammar.grammarIsRoot)>
            self._state.ruleMemo = {} 
        <endif>
        <endif>

        <grammar.delegators:
            {\g|self.<g:delegateName>() = <g:delegateName>()}; separator="\n">
        <last(grammar.delegators):
            {\g|self.gParent = self.<g:delegateName>()}; separator="\n">

        <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">
        <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif> }>
        <rules:{ <ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)> }>

        <grammar.directDelegates:
            {\g|self.<g:delegateName>() = <g:delegateName>()(\trunc(g.delegators):{p|p:delegateName()}, self, input, state)}; separator="\n">
        <grammar.directDelegates:
            {\g|self.<g:delegateName>() = <g:recognizerName>(self<grammar.delegators:{\g|, <g:delegateName>()}>, input, state)}; separator="\n"!>

        <@init>
        <@end>
<! generate rule/method definitions for imported rules so they 
    appear to be defined in this recognizer. !>
# Delegated rules
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">  
<synpreds:{p | <synpred(p)> }>
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{<it>};separator="", "])}<\n}>  

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
  <\>
  <if(ruleDescriptor.hasReturnValue)>return
  <endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.at
tributes:{a|<a.name>}; separator="", ")

/>  

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", init={<actions.parser.init>}, ...)>

/>  

/** How to generate a tree parser; same as parser except the input 
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labeType=[{ASTLabelType}], ASTLabelType="Object", superClass="TreeParser",
members=[<actions.treeparser.members>]) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node",
init=[<actions.treeparser.init>], ...)>

/>  

/** A simpler version of a rule template that is specific to the imaginary 
* rules created for syntactic predicates. As they never have return values 
* nor parameters etc.... just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
  # $ANTLR start "<ruleName>"
  def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
    <if(trace)>
    self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try:
    <block>
    finally:
    self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
    <else>
    <block>
    <endif>
  # $ANTLR end "<ruleName>"
>>
synpred(name) ::= <<
def <name>(self):
  self._state.backtracking += 1
  #@start()>
  start = self.input.mark()
  try:
    self.<name>_fragment()
  except BacktrackingFailed:
    success = False
  else:
    success = True
  self.input.rewind(start)
  #@stop()>
  self._state.backtracking -= 1
  return success
>>
lexerSynpred(name) ::= <<
>>
ruleMemoization(name) ::= <<
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
    if(self._state.backtracking > 0):
        raise BacktrackingFailed

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
    returnScope(scope=ruleDescriptor.returnScope)
    # $ANTLR start "<ruleName>"
    # <fileName>:<description>
    <ruleDescriptor.actions.decorate>
    def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
        if(trace):
            self.traceIn("<ruleName>", <ruleDescriptor.index>)
        <ruleScopeSetUp()>
        <ruleDeclarations()>
        <ruleLabelDefs()>
        <ruleDescriptor.actions.init>
        #@preamble()>
        <if(memoize)>
            <if(backtracking)>
                success = False
            <endif>
        </if(memoize)>
        <if(backtracking)>
            success = False
        <endif>
        try:
            try:
                <ruleMemoization(name=ruleName)>
                <block>
                <ruleCleanUp()>
                <(ruleDescriptor.actions.after):execAction()>
        </try>
        finally:
        <ruleCleanUp()>
        <ruleReturnValues()>
    <enddef>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
    if(self._state.backtracking > 0):
        raise BacktrackingFailed

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
    returnScope(scope=ruleDescriptor.returnScope)
    # $ANTLR start "<ruleName>"
    # <fileName>:<description>
    <ruleDescriptor.actions.decorate>
    def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
        if(trace):
            self.traceIn("<ruleName>", <ruleDescriptor.index>)
        <ruleScopeSetUp()>
        <ruleDeclarations()>
        <ruleLabelDefs()>
        <ruleDescriptor.actions.init>
        #@preamble()>
        <if(memoize)>
            <if(backtracking)>
                success = False
            <endif>
        </if(memoize)>
        <if(backtracking)>
            success = False
        <endif>
        try:
            try:
                <ruleMemoization(name=ruleName)>
                <block>
                <ruleCleanUp()>
                <(ruleDescriptor.actions.after):execAction()>
        </try>
        finally:
        <ruleCleanUp()>
        <ruleReturnValues()>
    <enddef>
catch(decl, action) ::= <<
except <e.decl>:
  <e.action>
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues) retval = self.<ruleDescriptor.name>_return()
@endif
>>
retval.start = self.input.LT(1)

<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> = <if(a.initValue)> a.initValue <else> None <endif>
| }
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {self.<it>_stack.append(<it>_scope())}; separator="n">
<ruleDescriptor.ruleScope: {self.<it.name>_stack.append(<it.name>_scope())}; separator="n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {self.<it>_stack.pop()}; separator="n">
<ruleDescriptor.ruleScope: {self.<it.name>_stack.pop()}; separator="n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<it.label.text> = None}; separator="n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = None}; separator="n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="n"
>
<ruleDescriptor.ruleListLabels: {<it.label.text> = None}; separator="n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels]
: {<it.label.text> = None}; separator="n"
>
<ruleDescriptor.charLabels: {<it.label.text> = None}; separator="n">
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels, ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = None}; separator="n"
>
>>
ruleReturnValue() ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
    <ruleDescriptor.singleValueReturnName>
  <else>
    retval
  <endif>
  <endif>
  <endif>
>>

ruleCleanUp() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <if(!TREE_PARSER)>
    retval.stop = self.input.LT(-1)
  <endif>
  <endif>
>>

memoize() ::= <<
  <if(memoize)>
  <if(backtracking)>
    if self._state.backtracking > 0:
      self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
  <endif>
  <endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  # $ANTLR start "<ruleName>"
  def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
    <if(trace)>
      self.traceIn("<ruleName>", <ruleDescriptor.index>)
    <endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <if(memoize)>
    <if(backtracking)>
      success = False
    <endif>
    <endif>
    <try>
    <if(nakedBlock)>

<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<brack>
<else>
_type = <ruleName>
_channel = DEFAULT_CHANNEL

<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<brack>
<ruleCleanUp()>
self._state.type = _type
self._state.channel = _channel
<(ruleDescriptor.actions.after):execAction()>
<endif>
<brack>
<brack>
if(memoize)>
<brack>
<brack>
finally:
<brack>
if(trace)>
<brack>
seltraceOut("<ruleName>",<ruleDescriptor.index>)<$\n> <endif>
<brack>
<brack>
self.traceOut("<ruleName>", <ruleDescriptor.index>)<$\n> <endif>
<brack>
<brack>
finaly:
<brack>
if(trace)>
<brack>
seltraceOut("<ruleName>", <ruleDescriptor.index>)<$\n> <endif>
<brack>
<brack>
# $ANTLR end "<ruleName>"


/** How to generate code for the implicitly-defined lexer grammar rule
*  that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
  <block>$\n

// SUB RULES
/** A (...) subrule with multiple alternatives */

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  alt<decisionNumber> = <maxAlt>
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  <alts:altSwitchCase(); separator="\nel">
  <@postbranch()>
>>

/** A rule block with multiple alternatives */

ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  alt<decisionNumber> = <maxAlt>
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  <alts:altSwitchCase(); separator="\nel">
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>::<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>::<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */

positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  cnt<decisionNumber> = 0
  <decls>
  <@preloop()>
  ...
while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
    <@predecision()>
    <decision>
    <@postdecision()>
    <alts:altSwitchCase(); separator="\nel">
else:
    if cnt<decisionNumber> >= 1:
        break #loop<decisionNumber>

    <ruleBacktrackFailure()>
    eee = EarlyExitException(<decisionNumber>, self.input)
    <@earlyExitException()>
    raise eee

cnt<decisionNumber> += 1

<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    <decls>
    <@preloop()>
    while True: #loop<decisionNumber>
        alt<decisionNumber> = <maxAlt>
        <@predecision()>
        <decision>
        <@postdecision()>
        <alts:altSwitchCase(); separator="\nel">
    else:
        break #loop<decisionNumber>

    <@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block
/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */

altSwitchCase() ::= <<
if alt<decisionNumber> == <i>:
  <@prealt()>
  <it>
>>

/** An alternative is just a list of elements; at outermost level */

alt(elements,altNum,description,autoAST,outerAlt, treeLevel,rew) ::= <<
  # <fileName>:<description>
pass <! so empty alternatives are a valid block !>
  <@declarations()>
  <elements:element()>
  <rew>
  <@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build * mode, does nothing. */

noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */

element() ::= <<
  <@prematch()>
  <it.el><\n>
>>

/** match a token optionally with a label in front */

tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)><label>=<endif>self.match(self.input, <token>,
  self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */

tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>)
  <listLabel(elem=label,...)>>
>>

listLabel(label, elem) ::= <<
  if list_<label> is None:
list_<label> = []
list_<label>.append(<elem>)

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)
<endif>
self.match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)
<endif>
self.matchRange(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<label> = self.input.LT(1)
<endif>
if <s>:
    self.input.consume()
    <postmatchCode>
<if(!LEXER)>
    self._state.errorRecovery = False
<endif>
else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    <@mismatchedSetException()>
    <if(LEXER)>
        self.recover(mse)
        raise mse
    <else>
        raise mse
    </if>
    ! use following code to make it recover inline; remove throw mse;
    self.recoverFromMismatchedSet(
        self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
    )
<! use following code to make it recover inline; remove throw mse;
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)
<liListLabel(elem=label,...)>>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<label>Start = self.getCharIndex()
self.match(<string>)
<label> = CommonToken(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<else>
self.match(<string>)
<endif>
>>

wildcard(label,elementIndex) ::= <<
<label> = self.input.LT(1)<\n>
<endif>
self.matchAny(self.input)
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<label> = self.input.LA(1)<\n>
<endif>
self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>>
>>

/** Match a rule reference by invoking it possibly with arguments *
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= «<
  self._state.following.append(self.FOLLOW_<ruleName>_in_<ruleName><elementIndex>)
  <if(label)>label = <endif>self.<<scope:delegateName()>.<endi><rule.name>(<args; separator="", ">))<in>
  self._state.following.pop()
»
/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= «<
  <ruleRef(...>)
  <listLabel(elem=label,...)>»
/** A lexer rule reference
  * The 'rule' argument was the target rule name, but now
  * is type Rule, whose toString is same: the rule name.
  * Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= «<
  <if(label)>
  <label>Start<elementIndex> = self.getCharIndex()
  self.<<scope:delegateName()>.<endi>m<rule.name>(<args; separator="", ">)
  <label> = CommonToken(
    input=self.input,
    type=INVALID_TOKEN_TYPE,
    channel=DEFAULT_CHANNEL,
    start=<label>Start<elementIndex>,
    stop=self.getCharIndex()-1
  )
  <else>
  self.<<scope:delegateName()>.<endi>m<rule.name>(<args; separator="", ">)
  <label> = «
  </label>
  <endif>
»
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= «<
  <lexerRuleRef(...)>
  <listLabel(elem=label,...)>»
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= «<
  <if(label)>
  <label>Start<elementIndex> = self.getCharIndex()
self.match(EOF)
<label> = CommonToken(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<else>
self.match(EOF)
<endif>
>>

/** match '^ (root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
   self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(...)>):
   <ruleBacktrackFailure()>
   raise FailedPredicateException(self.input, "<ruleName>", "<description>")
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="nel">
<if(eotPredictsAlt)>
   alt<decisionNumber> = <eotPredictsAlt>
<else>
   <ruleBacktrackFailure()>
   nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)
   #@noViableAltException()
raise nva<
><ndi>
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<
<edges; separator="\n">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<
<edges; separator="\n">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
   alt<decisionNumber> = <eotPredictsAlt>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
<targetState>
>>

// F i x e d  D F A  (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
<!
FIXME: this is one of the few occasion, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
else:
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>
<else>
 <ruleBacktrackFailure()>
 nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
 @@noViableAltException()>
 raise nvae<\n>
<endif>
<endif>
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
@if(eotPredictsAlt)>
 else:
 alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{LA<decisionNumber> == <it>}; separator=" or ":>
 <targetState>
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>._eot = DFA.unpack(  
u"<dfa.javaCompressedEOT; wrap="\n \"">"
)

DFA<dfa.decisionNumber>._eof = DFA.unpack(  
u"<dfa.javaCompressedEOF; wrap="\n \"">"
)

DFA<dfa.decisionNumber>._min = DFA.unpack(  
u"<dfa.javaCompressedMin; wrap="\n \"">"
)

DFA<dfa.decisionNumber>._max = DFA.unpack(  
u"<dfa.javaCompressedMax; wrap="\n \"">"
)

DFA<dfa.decisionNumber>._accept = DFA.unpack(  
u"<dfa.javaCompressedAccept; wrap="\n \"">"
)

DFA<dfa.decisionNumber>._special = DFA.unpack(  
u"<dfa.javaCompressedSpecial; wrap="\n \"">"
)

DFA<dfa.decisionNumber>._transition = [
   <dfa.javaCompressedTransition: [s|DFA.unpack(u"<s; wrap="\n\n\"">")]; separator="\n">  
]

# class definition for DFA #<dfa.decisionNumber>

<if(dfa.specialStateSTs)>
class DFA<dfa.decisionNumber>(DFA):
def specialStateTransition(self_, s, input):
    # convince pylint that my self_ magic is ok ;)
    # pylint: disable-msg=E0213
    # pretend we are a member of the recognizer
    # thus semantic predicates can be evaluated
    self = self_.recognizer
    _s = s

    <dfa.specialStateSTs:{state |
    if s == <i0>: ! compressed special state numbers 0..n-1 !>
    <state> }; separator="\nel">

    <if(backtracking)>
    if self._state.backtracking >0:
        raise BacktrackingFailed
    <endif>

    nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
    self_.error(nvae)
    raise nvae
<else>
DFA<dfa.decisionNumber> = DFA
<endif>

>>
cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>._eot,
    eof = self.DFA<dfa.decisionNumber>._eof,
    min = self.DFA<dfa.decisionNumber>._min,
    max = self.DFA<dfa.decisionNumber>._max,
    accept = self.DFA<dfa.decisionNumber>._accept,
    special = self.DFA<dfa.decisionNumber>._special,
    transition = self.DFA<dfa.decisionNumber>._transition
)<
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
LA<decisionNumber>._<stateNumber> = input.LA(1)<
<if(semPredState)> ! get next lookahead symbol to test edges, then rewind !>

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index<decisionNumber>_<stateNumber> = input.index()
input.rewind()

s = -1
<edges; separator=":\n"

<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)
<endif>
if s >= 0:
    return s

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
    s = <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
se:
    s = <targetStateNumber>
>>

// DFA EXPRESSIONS
andPredicates(left,right) ::= "((<left>) and (<right>))"
orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | or <o> }>)"
notPredicate(pred) ::= "not (<evalPredicate(...)>)"
evalPredicate(pred,description) ::= "(<pred>)"
evalSynPredicate(pred,description) ::= "self.<pred>()"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"
lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
  (<lower> \leq LA<decisionNumber>_<stateNumber> \leq <upper>)
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(\langle lower \rangle \leq self.input.LA(\langle k \rangle) \leq \langle upper \rangle)"

setTest(ranges) ::= "\langle ranges; separator=" or ">

// ATTRIBUTES

globalAttributeScopeClass(scope) ::= <<
  <if(scope.attributes)>
  class <scope.name>_scope(object):
    def __init__(self):
      <scope.attributes:{self.<it.decl> = None}; separator="\n">
    <endif>
>>

globalAttributeScopeStack(scope) ::= <<
  <if(scope.attributes)>
  self.<scope.name>_stack = []
  <endif>
>>

ruleAttributeScopeClass(scope) ::= <<
  <if(scope.attributes)>
  class <scope.name>_scope(object):
    def __init__(self):
      <scope.attributes:{self.<it.decl> = None}; separator="\n">
    <endif>
>>

ruleAttributeScopeStack(scope) ::= <<
  <if(scope.attributes)>
  self.<scope.name>_stack = []
  <endif>
>>

delegateName() ::= <<
  <if(it.label)><it.label><else>g<it.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
  <label.label.text> = None
>>
returnStructName() ::= "<it.name>._return"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName>()(<<TREE_PARSER(Tree<else>Parser)<endif>RuleReturnScope):
def __init__(self):
@if(TREE_PARSER)
TreeRuleReturnScope.__init__(self)
<else>
ParserRuleReturnScope.__init__(self)
<endif>

<scope.attributes:{self.<it.decl> = None}; separator="\n">  
@ruleReturnInit()
@ruleReturnMembers()
<endif>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator="", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
@if(negIndex)
self.<scope>_stack[-<negIndex>].<attr.name>
<else>
@if(index)
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
@endif
<endif>
>>

/\* not applying patch because of bug in action parser!\*/
/*

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
  <if(negIndex>)
  !FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
</if>
  <else>
  <if(index>)
  !FIXME: this seems not to be used by ActionTranslator...!>
self.< scope>_stack[<index>].<attr.name> = <expr>
</if>
  <else>
self.<scope>_stack[-1].<attr.name> = <expr>
</endif>
</if>
>>

/** $x$ is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?*
*/
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues>)
(<<scope> is not None) and [<scope>.<attr.name>] or [None][0]
</else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues>)
retval.<attr.name>
</else>
<attr.name>
<endif>
>>
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> = <expr>
  <else>
  <attr.name> = <expr>
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Sids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(  

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
  ((<scope> is not None) and [self.input.getTokenStream().toString(
    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
  ]) or [None])[0]
  <else>
  ((<scope> is not None) and [<scope>.start,<scope>.stop]) or [None])[0]
  <endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.start] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or
lexerRuleLabelPropertyRef_channel(scope, attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope, attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope, attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope, attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "retval.start"
rulePropertyRef_stop(scope, attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope, attr) ::= "retval.tree"
rulePropertyRef_text(scope, attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope, attr) ::= "retval.st"

lexerRulePropertyRef_text(scope, attr) ::= "self.text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope, attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.tree = <expr>"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st = <expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:
 <action>
<else>
if self._state.backtracking == 0:
 <action>
<endif>
<else>
#action start
<action>
#action end
<endif>
>>
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"
true() ::= "True"
false() ::= "False"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/antlr/codegen/templates/Python/Python.stg
No license file was found, but licenses were detected in source scan.

/*
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

group ActionScript implements ANTLRCore;

asTypeInitMap ::= [
  "int":"0",
  "uint":"0",
  "Number":"0.0",
]
"Boolean":"false",
default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
    package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> { 
        <actions.(actionScope).header>
        <@imports>
        import org.antlr.runtime.*;
        <if(TREE_PARSER)>
        import org.antlr.runtime.tree.*;
        </if>
        <@end>
        <docComment>
        <recognizer>
    }

    lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
        filterMode, superClass="Lexer") ::= <<
    public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
        <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
        <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> 
            <grammar.delegates:
                {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n"> 
                // delegators
                <grammar.delegators:
                    {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n"> 
                    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}]>
    
    public function <grammar.recognizerName>(<grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>,}]>input:CharStream = null, state:RecognizerSharedState = null) {
        super(input, state);
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1. */
filteringNextToken() ::= <<
public override function nextToken():Token {
  while (true) {
    if ( input.LA(1)==CharStreamConstants.EOF ) {
      return TokenConstants.EOF_TOKEN;
    }
    this.state.token = null;
    this.state.channel = TokenConstants.DEFAULT_CHANNEL;
    this.state.tokenStartCharIndex = input.index;
    this.state.tokenStartCharPositionInLine = input.charPositionInLine;
    this.state.tokenStartLine = input.line;
    this.state.text = null;
    try {
      var m:int = input.mark();
      this.state.backtracking=1; <! means we won't throw slow exception !>
      /*
      >>>
      */
  }
}
this.state.failed=false;
mTokens();
this.state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2 and we set the synpredgate to allow actions at level 1. !>
if ( this.state.failed ) {
    input.rewindTo(m);
    input.consume(); <! advance one char and try again !>
}
else {
    emit();
    return this.state.token;
}
}
catch (re:RecognitionException) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
// Not reached - For ActionScript compiler
throw new Error();
}

public override function memoize(input:IntStream,
ruleIndex:int,
ruleStartIndex:int):void
{
if ( this.state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
if ( this.state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
return false;
}
}

filteringActionGate() ::= "this.state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, inputStreamType, superClass,
ASTLabelType="Object", labelType, members, rewriteElementType) ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
<if(grammar.grammarIsRoot)>
public static const tokenNames:Array = [
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
];<\n>
<endif>
<tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">

// delegates
<grammar.delegates:
{g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">

// delegators
<grammar.delegators:
{g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
<last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}

@members

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public function <grammar.recognizerName>(<grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>,
}>input:<inputStreamType>, state:RecognizerSharedState = null) {
  super(input, state);
  <cyclicDFAs:cyclicDFACtor()>
  <parserCtorBody()>
  <grammar.directDelegates:
  {g|<g:delegateName()>=new <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>,}>this,
  input, this.state);}; separator="\n">
  <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
  <last(grammar.delegators):{g|gParent = <g:delegateName>();}>}

@end>

public override function get tokenNames():Array { return 
<grammar.composite.rootGrammar.recognizerName>.tokenNames; }
public override function get grammarFileName():String { return ","; }

@members

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|public function
<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType()> 
{if(ruleDescriptor.hasReturnValue)>return
<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name> }; separator="", "); 
{endif}>}

<synpreds:{p | <synpred(p)>>}>

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 2410
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
          words64=it.bits)>

}</cyclicDFAs:cyclicDFA()>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Array(<length(grammar.allImportedRules)>+1);</n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
 {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n"
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object",
      superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 *  stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
          labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser",
          members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 *  rules created for syntactic predicates. As they never have return values
 *  nor parameters etc.... just give simplest possible method. Don't do
 *  any of the normal memoization stuff in here either; it's a waste.
 *  As predicates cannot be inlined into the invoking rule, they need to
 *  be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
        <block>
    }
finally {

Open Source Used In Cisco Vision Dynamic Signage Director 6.4  2411
traceOut("<ruleName>_fragment", <ruleDescriptor.index>);  
}
<else>
<block>
<endif>

// $ANTLR end <ruleName>

>>

synpred(name) ::= <<
public final function <name>():Boolean {
    this.state.backtracking++;  
    <@start()>
    var start:int = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (re:RecognitionException) {
        trace("impossible: "+re);
    }
    var success:Boolean = !this.state.failed;
    input.rewindTo(start);
    <@stop()>
    this.state.backtracking--;
    this.state.failed=false;
    return success;
}<\n>

>>

lexerSynpred(name) ::= <<
<synpred(name)>

>>

ruleMemoization(name) ::= <<
@if(memoize)  
if ( this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue()>;  
}<endif>

>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking) if (this.state.failed) return <ruleReturnValue()>;<endif>

>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking) if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue()>; }<endif>

>>
/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  // $ANTLR start <ruleName>
  // <fileName>:<description>
  public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType()> {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    try {
      <ruleMemoization(name=ruleName)>
      <block>
      <ruleCleanUp()>
      <(ruleDescriptor.actions.after):execAction()>
    }
    <if(exceptions)>}
    <exceptions:{e|<catch(decl=e.decl,action=e.action)>>}
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
    <else>
    catch (re:RecognitionException) {
      reportError(re);
      recoverStream(input,re);
      <@setErrorReturnValue()>
    }<in>
    <endif>
    <endif>
    <endif>
    finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    }<in>
    <@postamble()>
    return <ruleReturnValue()>;
  }
  // $ANTLR end <ruleName>
>>
catch(decl, action) ::= <<
catch (e.decl) {
    e.action
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
var retval:<returnType>() = new <returnType>();
retval.start = input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes:{ a |
var <a.name>:<a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; 
]
<endif>
<if(memoize)>
var <ruleDescriptor.name>_StartIndex:int = input.index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new Object());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new Object());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{var list_<it.label.text>:Array=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, 
ruleDescriptor.tokenListLabels, 
ruleDescriptor.ruleLabels]
 :{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{var <it.label.text>:int;}; separator="\n"
ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>

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<ruleDescriptor.actions.init>
<brack><n>
<else>
   var _type:int = <ruleName>;
   var _channel:int = DEFAULT_TOKEN_CHANNEL;
   <ruleMemoization(name=ruleName)>
   <lexerRuleLabelDefs()>
   <ruleDescriptor.actions.init>
   <brack>
   <ruleCleanUp()>
   this.state.type = _type;
   this.state.channel = _channel;
   <(ruleDescriptor.actions.after):execAction()>
   <endif>
</finally>
@if(trace)>traceOut(<ruleName>, <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override function mTokens():void {
<brack>
}<brack>
// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
   <alts:altSwitchCase()>
}<@postbranch()>

---
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/* A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    var alt<decisionNumber>:int=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
>>

/* A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
>>

/* A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    var cnt<decisionNumber>:int=0;
    <decls>
    <@preloop()>
    loop<decisionNumber>:
do {
        var alt<decisionNumber>:int=<maxAlt>;
        <@predecision()>
        <decision>
        <@postdecision()>
        switch (alt<decisionNumber>) {
            <alts:altSwitchCase()>
        default :
            }
if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
@ruleBacktrackFailure()
    throw new EarlyExitException(<decisionNumber>, input);
<! Need to add support for earlyExitException debug hook !>
}
cnt<decisionNumber>++;
} while (true);
@postloop()
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
@preloop()>
loop<decisionNumber>:
    do {
        var alt<decisionNumber>:int=<maxAlt>;
        @predecision()
        @decision
        @postdecision()
        switch (alt<decisionNumber>) {
        <alts:altSwitchCase()> default :
            break loop<decisionNumber>;
        }
    } while (true);
@postloop()
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number.  A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i>:
/** An alternative is just a list of elements; at outermost level */
ext(alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew)) ::= <<
// <fileName>:<description>
{
@declarations()
elements:element()
rew
@cleanup()
}
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
@prematch()
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
@if(label)<label>=<labelType>(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><element
Index>)<if(label>)<endif>; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new Array();
list_<label>.push(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
/** match a character range */
charRangeRef(a,b,label) ::= <<

matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="" ) ::= <<
;if(label)
<label> = input.LA(1);<n>
;endif
matchRange(<s>,<s>); <checkRuleBacktrackFailure()>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
```java
/** Match a string literal */
lexerStringRef(string,label) ::= <<
  <if(label)>
    var <label>Start:int = charIndex;
    matchString(<string>); <checkRuleBacktrackFailure()>
    <label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
      TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
  <else>
    matchString(<string>); <checkRuleBacktrackFailure>()
  </if>
<<

wildcard(label,elementIndex) ::= <<
  <if(label)>
    <label>=<labelType>(input.LT(1));<
  </endif>
  matchAny(input); <checkRuleBacktrackFailure()>
<<

wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(elem=label,...)><<

/** Match a rule reference by invoking it possibly with arguments * and a return value or values. The 'rule' argument was the * target rule name, but now is type Rule, whose toString is * same: the rule name. Now though you can access full rule * descriptor stuff. */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
```
pushFollow(FOLLOW_ruleName_in_ruleName_elementIndex);
<if(label)> <label>= <endif> <if(scope)> <scope:delegateName()> . <endif> <rule.name>(<args; separator=", "); <\n> state_fsp--;
<checkRuleBacktrackFailure()>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>

/** A lexer rule reference.
 *  
 *  The 'rule' argument was the target rule name, but now
 *  is type Rule, whose toString is same: the rule name.
 *  Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
<if(scope)> <scope:delegateName()> . <endif> m<rule.name>(<args; separator=", ");
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
<if(scope)> <scope:delegateName()> . <endif> m<rule.name>(<args; separator=", ");
<checkRuleBacktrackFailure()>
<endif>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
match(EOF); <checkRuleBacktrackFailure()>
var <label>: <labelType> = CommonToken.createFromStream(input, EOF,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
** match ^\(root children\) in tree parser */

```plaintext
tree(root, actionsAfterRoot, children, nullableChildList, 
  enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( input.LA(1)==TokenConstants.DOWN ) {
      matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
      <children:element()>
      matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
    }
  <else>
    matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
  </if>
</tree>

// F i x e d  D F A  (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  var LA<decisionNumber>_stateNumber:int = input.LA(<k>);<
  <edges; separator="else ">
  else {<
    if(eotPredictsAlt)>
      alt<decisionNumber>=<eotPredictsAlt>;
    <else>
      <ruleBacktrackFailure()>
      throw new NoViableAltException("description", <decisionNumber>, <stateNumber>, input);
    </if>
  </else>
  <ruleBacktrackFailure()>
  throw new NoViableAltException("description", <decisionNumber>, <stateNumber>, input);
  </if>
  </edges; separator="else ">
</dfaState>
```

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/

validateSemanticPredicate(pred,description) ::= <<
  if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
  }
</validateSemanticPredicate>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
*/
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<
<edges; separator="\nelse ">
>
/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a)* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<
<edges; separator="\nelse ">
><if(eotPredictsAlt)
<else>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<endif>
<endif>
>>
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"
/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
<targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
  <edges; separator="\n">
}<\n>
>>
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
  <edges; separator="\n">
  <if(eotPredictsAlt)
    default:
    alt<decisionNumber> = eotPredictsAlt;
    break;<\n>
  <endif>
}<\n>
>>
dfaEdgeSwitch(labels, targetState) ::= <
<labels:{case <it>:}; separator="\n">
  {<targetState>
  }
break;
>
>>
dfadfa.decisionNumber> = new DFA(this, dfadfa.decisionNumber>,
"<dfa.description>",
DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs),
DFA<dfa.decisionNumber>_specialStateTransition<endif>);
case <i0> : <! compressed special state numbers 0..n-1 !>
   <state>}; separator="\n"

   }</case>
   <if(backtracking)>
      if (this.state.backtracking>0) {this.state.failed=true; return -1;}</if>
   </endif>
   throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
<endif>
<endif>

protected var dfa<dfa.decisionNumber>:DFA;  // initialized in constructor

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
   var LA<decisionNumber>_<stateNumber>:int = input.LA(1);
   <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
      var index<decisionNumber>_<stateNumber>:int = input.index;
      input.rewind();</if>
   s = -1;
   <edges; separator="\nelse">
   <if(semPredState)> <! return input cursor to state before we rewound !>
      input.seek(index<decisionNumber>_<stateNumber>);</if>
   if ( s>=0 ) return s;
   break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
   if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<if>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
   s = <targetStateNumber>;<if>
>>

// DFA EXPRESSIONS
andPredicates(left, right) ::= "((<left>&&<right>)"

orPredicates(operands) ::= "((<first(operands)><rest(operands):{o | ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom, k, atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<<
(LA<decisionNumber>_<stateNumber>\=<lowerAsInt> &&
LA<decisionNumber>_<stateNumber>\=<upperAsInt>)
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(input.LA(<k>)\=<lowerAsInt> && input.LA(<k>)\=<upperAsInt>)"

setTest(ranges) ::= "<ranges; separator="||">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>._stack: Array = new Array();<\n>
<endif>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>._stack: Array = new Array();<\n>
<endif>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnStructName()>
<else>
/** Generate the Java type associated with a single or multiple return values. */

ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
    <returnStructName()>
  <else>
    <if(referencedRule.hasSingleReturnValue)>
      <referencedRule.singleValueReturnType>
    <else>
      void
    </endif>
  </endif>
>>

delegateName() ::= <<
  <if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "null". */

initValue(typeName) ::= <<
  <asTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */

ruleLabelDef(label) ::= <<
  var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
  <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<
>>

/** Define a return struct for a rule if the code needs to access its start/stop tokens, tree stuff, attributes, ... Leave a hole for subgroups to stick in members. */

returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
      <scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
};
<endif>
>>
parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>
parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
<else>
<if(index)>
<scope>_stack[<index>].<attr.name>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name>
<endif>
<endif>
>>
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name> =<expr>;
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
<endif>
<endif>
>>
/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"
/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.values.<attr.name>:<initValue(attr.type)>)
<else>
<scope>

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returnAttributeRef(ruleDescriptor, attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.values.<attr.name>
  <else>
    <attr.name>
  <endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.values.<attr.name> =<expr>;
  <else>
    <attr.name> =<expr>;
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(scope)={!null?scope.text:null)"
tokenLabelPropertyRef_type(scope, attr) ::= "(scope)={!null?scope.type:0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(scope)={!null?scope.line:0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(scope)={!null?scope.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "(scope)={!null?scope.channel:0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(scope)={!null?scope.tokenIndex:0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "(scope)()._tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(scope)={!null?int(scope.text):0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(scope)={!null?labelType(scope).start):null)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(scope)={!null?labelType(scope).stop):null)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(scope)={!null?ASTLabelType(scope.tree):null)"
ruleLabelPropertyRef_text(scope, attr) ::= <<
  <if(TREE_PARSER)>
    (scope)={!null?(input.tokenStream.toStringWithRange( 
      input.treeAdaptor.getTokenStartIndex(scope.start),
      input.treeAdaptor.getTokenStopIndex(scope.start))):null)
  <else>
    (scope)={!null?input.toStringWithRange(scope.start,scope.stop):null)
  <endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?<scope>.st:0)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= 
"(<scope>!=null?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= 
"(<scope>!=null?<scope>.lien:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= 
"(<scope>!=null?<scope>.charPositionInLine:0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= 
"(<scope>!=null?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= 
"(<scope>!=null?<scope>.tokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= 
"(<scope>!=null?<scope>.text:0)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= 
"(<scope>!=null?int(<scope>.text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
  input.tokenStream.toStringWithRange(
      input.treeAdaptor.getTokenStartIndex(retval.start),
      input.treeAdaptor.getTokenStopIndex(retval.start))
<else>
  input.toStringWithRange(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= ".channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  <if(actions.(actionScope).synpredgate)>
  if ( actions.(actionScope).synpredgate ) {
    <action>
  }
  <else>
  if ( this.state.backtracking==0 ) {
    <action>
  }
  <endif>
  <else>
  <action>
  <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
  public static const <name>:BitSet = new BitSet([<words64:{<it>};separator=", "]));
>>

codeFileExtension() ::= ".as"
true() ::= "true"
false() ::= "false"

Found in path(s):
  * /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4.jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */

group ASTDbg:

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor =
    new DebugTreeAdaptor(null,new CommonTreeAdaptor());
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
} \n
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
adaptor.setDebugListener(dbg);
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
    new DebugEventSocketProxy(this.port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
adaptor.setDebugListener(proxy);
set<InputStreamType>(new Debug<InputStreamType>(input,proxy));
try {
proxy.handshake();
}
catch (IOException ioe) {
    reportError(ioe);
}
>>

cTorForPredefinedListener() ::= <<
public <name>({<inputStreamType> input, DebugEventListener dbg}) {
    super(input, dbg);
    <if(profile)>
        Profiler p = (Profiler)dbg;
        p.setParser(this);<\n>
    <endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
} <\n>
>>

@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"

Found in path(s):
* /opt/cola/permits/1158685257_1619822616.15/0/antlr-3-1-1-4-jar/org/antlr/codegen/templates/C/ASTDbg.stg

1.173 netty-handler 4.0.20.Final

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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      (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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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICUData.java
No license file was found, but licenses were detected in source scan.

/*
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 */

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/IntTrieBuilder.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/ValueIterator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/RangeValueIterator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/TrieBuilder.java
No license file was found, but licenses were detected in source scan.

/*
 * Date   Name        Description
 * 01/14/2002  aliu  Creation.
 */

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/StringReplacer.java
No license file was found, but licenses were detected in source scan.
* created by: Markus W. Scherer
* ported from ICU4C ucharstrie.h/.cpp
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/CharsTrie.java
No license file was found, but licenses were detected in source scan.

/*
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*******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/PluralRules.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/PluralFormat.java
No license file was found, but licenses were detected in source scan.

/*
*******************************************************************************
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* others. All Rights Reserved.
*******************************************************************************
*/
/**
   * Returns the length of the most recent match in the target text.
   * This call returns a valid result only after a successful
   * call to [@link #first], [@link #next], [@link #previous], or
   * [@link #last].
   * Just after construction, or after a searching method returns
   * &lt;tt&gt;DONE&lt;/tt&gt;, this method will return 0. See getMatchStart() for
   * more details.
   * &lt;/p&gt;
   * @return The length of the most recent match in the target text, or 0 if
   * there is no match.
   * @see #getMatchStart
   * @see #getMatchedText
   * @see #first
   * @see #next
   * @see #previous
   * @see #last
   * @see #DONE
   * @stable ICU 2.0
   */
Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/SearchIterator.java
No license file was found, but licenses were detected in source scan.

/*
*******************************************************************************
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*******************************************************************************
* created on: 2011 jan05
* created by: Markus W. Scherer
* ported from ICU4C stringtriebuilder.h/cpp
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/StringTrieBuilder.java
No license file was found, but licenses were detected in source scan.

/*
**********************************************************************
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**********************************************************************
* Author: Alan Liu
* Created: March 16 2004
* Since: ICU 3.0
**********************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/TokenIterator.java
No license file was found, but licenses were detected in source scan.

/*
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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/RBBIRuleParseTable.java
No license file was found, but licenses were detected in source scan.

/*
*******************************************************************************
* Open Source Used In Cisco Vision Dynamic Signage Director 6.4 2503
*******************************************************************************
*
No license file was found, but licenses were detected in source scan.

/*
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 */

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/*
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 ******************************************************************************
 */

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/*
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 */

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/*
 ******************************************************************************
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 ******************************************************************************
 * Author: M. Davis
 * Created: December 2002 (moved from UnicodeSet)
 * Since: ICU 2.4
 ******************************************************************************

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/AlphabeticIndex.java
No license file was found, but licenses were detected in source scan.


Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/math/MathContext.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/GregorianCalendar.java
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/*****************************/

/*
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 */

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/CharTrie.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/IntTrie.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/lang/UCharacterNameIterator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/Trie.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/locale/ParseStatus.java
No license file was found, but licenses were detected in source scan.
/*
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 */

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/BidiLine.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/BidiRun.java
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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/UCharacterNameChoice.java
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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/MeasureUnit.java
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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/MeasureUnit.java
No license file was found, but licenses were detected in source scan.
Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/TransliteratorRegistry.java
No license file was found, but licenses were detected in source scan.

/**
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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/lang/UCharacter.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/CollationKey.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/lang/UProperty.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/impl/UCharacterProperty.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/ListFormatterData.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/ListFormatter.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/IDNA.java
No license file was found, but licenses were detected in source scan.

/*
 ************************************************************************************
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 * others. All Rights Reserved.
************************************************************************************
*/
A transliterator that is composed of two or more other transliterator objects linked together. For example, if one transliterator transliterates from script A to script B, and another transliterates from script B to script C, the two may be combined to form a new transliterator from A to C.
* <p>Composed transliterators may not behave as expected. For example, inverses may not combine to form the identity transliterator. See the class documentation for {@link Transliterator} for details.
* <p>Copyright &copy; IBM Corporation 1999. All rights reserved.
* <p>@author Alan Liu
*/

Found in path(s):
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/CompoundTransliterator.java
No license file was found, but licenses were detected in source scan.

/* Copyright IBM Corporation, 1996-2011. All Rights Reserved. */
// copyright=" Copyright (c) IBM Corporation 1996, 2000. All rights reserved. ";

Found in path(s):
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/math/BigDecimal.java
No license file was found, but licenses were detected in source scan.

/**
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 */

Found in path(s):
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/StringTokenizer.java
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/CollationRuleParser.java
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/UCharacterName.java
No license file was found, but licenses were detected in source scan.

/*
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 */

Found in path(s):
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/JapaneseCalendar.java
No license file was found, but licenses were detected in source scan.
/*

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/UTS46.java
No license file was found, but licenses were detected in source scan.

/** *

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/Norm2AllModes.java
No license file was found, but licenses were detected in source scan.

/** *

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICURWLock.java
No license file was found, but licenses were detected in source scan.

/** *

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/BytesTrieBuilder.java
No license file was found, but licenses were detected in source scan.

/** *

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/BytesTrieBuilder.java
No license file was found, but licenses were detected in source scan.
* A transliteration rule used by
  * <code>RuleBasedTransliterator</code>.
  * <code>TransliterationRule</code> is an immutable object.
  *
  * A rule consists of an input pattern and an output string. When
  * the input pattern is matched, the output string is emitted. The
  * input pattern consists of zero or more characters which are matched
  * exactly (the key) and optional context. Context must match if it
  * is specified. Context may be specified before the key, after the
  * key, or both. The key, preceding context, and following context
  * may contain variables. Variables represent a set of Unicode
  * characters, such as the letters <i>a</i> through <i>z</i>.
  * Variables are detected by looking up each character in a supplied
  * variable list to see if it has been so defined.
  *
  * A rule may contain segments in its input string and segment
  * references in its output string. A segment is a substring of the
  * input pattern, indicated by an offset and limit. The segment may
  * be in the preceding or following context. It may not span a
  * context boundary. A segment reference is a special character in
  * the output string that causes a segment of the input string (not
  * the input pattern) to be copied to the output string. The range of
  * special characters that represent segment references is defined by
  * RuleBasedTransliterator.Data.
  *
  * Example: The rule "([a-z]) . ([0-9]) > $2 . $1" will change the input
  * string "abc.123" to "ab1.c23".
  *
  * Copyright &copy; IBM Corporation 1999. All rights reserved.
  *
  * @author Alan Liu

*/

Found in path(s):
* /opt/cola/permits/1158685643_161982710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/TransliterationRule.java

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*/

Found in path(s):
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/*
   *****************************************************************************
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   * others. All Rights Reserved.                                              *
   *****************************************************************************

   Found in path(s):
   * /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/Quantifier.java

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

   /*
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   *****************************************************************************

   Found in path(s):
   * /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/PropsVectors.java

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

   /*
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   Found in path(s):
   * /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/TitlecaseTransliterator.java

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

   /*
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   *****************************************************************************

   Found in path(s):
   * /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/Freezable.java
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/*
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******************************************************************************
* created on: 2010nov23
* created by: Markus W. Scherer
* ported from ICU4C bytestrie.h/.cpp
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/BytesTrie.java

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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/UnicodeMatcher.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/StringMatcher.java

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*/

/**
 * DateIntervalInfo is a public class for encapsulating localizable
 * date time interval patterns. It is used by DateIntervalFormat.
 *
 * <P>
 * For most users, ordinary use of DateIntervalFormat does not need to create
 * DateIntervalInfo object directly.
 * DateIntervalFormat will take care of it when creating a date interval
 * formatter when user pass in skeleton and locale.
 *
 * <P>
 * For power users, who want to create their own date interval patterns,
 * or want to re-set date interval patterns, they could do so by
 * directly creating DateIntervalInfo and manipulating it.
 */
Logically, the interval patterns are mappings from (skeleton, the largest different calendar field) to (date_interval_pattern).

- A skeleton
  - only keeps the field pattern letter and ignores all other parts in a pattern, such as space, punctuations, and string literals.
  - hides the order of fields.
  - might hide a field's pattern letter length.
- For those non-digit calendar fields, the pattern letter length is important, such as MMM, MMMM, and MMMMM; EEE and EEEE, and the field's pattern letter length is honored.
- For the digit calendar fields, such as M or MM, d or dd, yy or yyyy, the field pattern length is ignored and the best match, which is defined in date time patterns, will be returned without honor the field pattern letter length in skeleton.

The calendar fields we support for interval formatting are:
- year, month, date, day-of-week, am-pm, hour, hour-of-day, and minute.
- Those calendar fields can be defined in the following order:
  - year > month > date > am-pm > hour > minute
- The largest different calendar fields between 2 calendars is the first different calendar field in above order.
- For example: the largest different calendar fields between "Jan 10, 2007" and "Feb 20, 2008" is year.
- There is a set of pre-defined static skeleton strings.
- There are pre-defined interval patterns for those pre-defined skeletons in locales' resource files.
- For example, for a skeleton YEAR_ABBR_MONTH_DAY, which is "yMMMd", in en_US, if the largest different calendar field between date1 and date2 is "year", the date interval pattern is "MMM d, yyyy - MMM d, yyyy", such as "Jan 10, 2007 - Jan 10, 2008".
- If the largest different calendar field between date1 and date2 is "month",
* the date interval pattern is "MMM d - MMM d, yyyy",
* such as "Jan 10 - Feb 10, 2007".
* If the largest different calendar field between date1 and date2 is "day",
* the date interval pattern is ","MMM d-d, yyyy", such as "Jan 10-20, 2007".
*
* For date skeleton, the interval patterns when year, or month, or date is
* different are defined in resource files.
* For time skeleton, the interval patterns when am/pm, or hour, or minute is
* different are defined in resource files.
*
* <P>
* There are 2 dates in interval pattern. For most locales, the first date
* in an interval pattern is the earlier date. There might be a locale in which
* the first date in an interval pattern is the later date.
* We use fallback format for the default order for the locale.
* For example, if the fallback format is "{0} - {1}", it means
* the first date in the interval pattern for this locale is earlier date.
* If the fallback format is "{1} - {0}", it means the first date is the
* later date.
* For a particular interval pattern, the default order can be overridden
* by prefixing "latestFirst:" or "earliestFirst:" to the interval pattern.
* For example, if the fallback format is "{0}\{-1}\)",
* but for skeleton "yMMMd", the interval pattern when day is different is
* "latestFirst:d-d MMM yy", it means by default, the first date in interval
* pattern is the earlier date. But for skeleton "yMMMd", when day is different,
* the first date in "d-d MMM yy" is the later date.
*
* <P>
* The recommended way to create a DateIntervalFormat object is to pass in
* the locale.
* By using a Locale parameter, the DateIntervalFormat object is
* initialized with the pre-defined interval patterns for a given or
* default locale.
* <P>
* Users can also create DateIntervalFormat object
* by supplying their own interval patterns.
* It provides flexibility for power usage.
*
* <P>
* After a DateIntervalInfo object is created, clients may modify
* the interval patterns using setIntervalPattern function as so desired.
* Currently, users can only set interval patterns when the following
* calendar fields are different: ERA, YEAR, MONTH, DATE, DAY_OF_MONTH,
* DAY_OF_WEEK, AM_PM, HOUR, HOUR_OF_DAY, and MINUTE.
* Interval patterns when other calendar fields are different is not supported.
* <P>
* DateIntervalInfo objects are cloneable.
* When clients obtain a DateIntervalInfo object,
* they can feel free to modify it as necessary.
* <p>
* DateIntervalInfo are not expected to be subclassed.
* Data for a calendar is loaded out of resource bundles.
* Through ICU 4.4, date interval patterns are only supported in the Gregoria
* calendar; non-Gregorian calendars are supported from ICU 4.4.1.
* 
* @stable ICU 4.0
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/DateIntervalInfo.java
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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/ReplaceableContextIterator.java
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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/ReplaceableContextIterator.java
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/*
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*
* A set of rules for a <code>RuleBasedTransliterator</code>. This set encodes
* the transliteration in one direction from one set of characters or short
* strings to another. A <code>RuleBasedTransliterator</code> consists of up to
* two such sets, one for the forward direction, and one for the reverse.
* 
* A <code>TransliterationRuleSet</code> has one important operation, that of
* finding a matching rule at a given point in the text. This is accomplished
* by the <code>findMatch()</code> method.
* 
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* 
* @author Alan Liu
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/TransliterationRuleSet.java

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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/VTimeZone.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/RelativeDateFormat.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/RuleBasedTimeZone.java

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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/RelativeDateFormat.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/RuleBasedTimeZone.java

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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/OlsonTimeZone.java
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*}
* <code>DateFormat</code> class's factory methods: <code>getTimeInstance</code>, <code>getDateInstance</code>, or <code>getDateTimeInstance</code>. These methods automatically create a <code>DateFormatSymbols</code> for the formatter so that you don't have to. After the formatter is created, you may modify its format pattern using the <code>setPattern</code> method. For more information about creating formatters using <code>DateFormat</code>’s factory methods, see [@link DateFormat].

* <p>If you decide to create a date-time formatter with a specific format pattern for a specific locale, you can do so with:

  * <blockquote>
  * new SimpleDateFormat(aPattern, new DateFormatSymbols(aLocale)).
  * </pre>
  * </blockquote>

* <p><code>DateFormatSymbols</code> objects are clonable. When you obtain a <code>DateFormatSymbols</code> object, feel free to modify the date-time formatting data. For instance, you can replace the localized date-time format pattern characters with the ones that you feel easy to remember. Or you can change the representative cities to your favorite ones.

* <p>New <code>DateFormatSymbols</code> subclasses may be added to support <code>SimpleDateFormat</code> for date-time formatting for additional locales.

* @see DateFormat
* @see SimpleDateFormat
* @see com.ibm.icu.util.SimpleTimeZone
* @author Chen-Lieh Huang
* @stable ICU 2.0
*/

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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/DateFormatSymbols.java
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*/

/*
**
* <code>Transliterator</code> is an abstract class that transliterates text from one format to another. The most common
* kind of transliterator is a script, or alphabet, transliterator. For example, a Russian to Latin transliterator
* changes Russian text written in Cyrillic characters to phonetically equivalent Latin characters. It does not
* <em>translate</em> Russian to English! Transliteration, unlike translation, operates on characters, without reference
* to the meanings of words and sentences.
* *
* <p>
* Although script conversion is its most common use, a transliterator can actually perform a more general class of
* tasks. In fact, <code>Transliterator</code> defines a very general API which specifies only that a segment of the
* input text is replaced by new text. The particulars of this conversion are determined entirely by subclasses of
* <code>Transliterator</code>.
* *
* <p>
* <b>Transliterators are stateless</b>
* *
* <p>
* <code>Transliterator</code> objects are <em>stateless</em>; they retain no information between calls to
* <code>transliterate()</code>. As a result, threads may share transliterators without synchronizing them. This might
* seem to limit the complexity of the transliteration operation. In practice, subclasses perform complex
* transliterations by delaying the replacement of text until it is known that no other replacements are possible. In
* other words, although the <code>Transliterator</code> objects are stateless, the source text itself embodies all the
* needed information, and delayed operation allows arbitrary complexity.
* *
* <p>
* <b>Batch transliteration</b>
* */
The simplest way to perform transliteration is all at once, on a string of existing text. This is referred to as batch transliteration. For example, given a string `input` and a transliterator `t`, the call

```java
String result = t.transliterate(input);
```

will transliterate it and return the result. Other methods allow the client to specify a substring to be transliterated and to use `Replaceable` objects instead of strings, in order to preserve out-of-band information (such as text styles).

**Keyboard transliteration**

Somewhat more involved is keyboard, or incremental transliteration. This is the transliteration of text that is arriving from some source (typically the user's keyboard) one character at a time, or in some other piecemeal fashion.

In keyboard transliteration, a `Replaceable` buffer stores the text. As text is inserted, as much as possible is transliterated on the fly. This means a GUI that displays the contents of the buffer may show text being modified as each new character arrives.

Consider the simple `RuleBasedTransliterator`:

```java
th>&{theta}<br>
t>{tau}
```

When the user types 't', nothing will happen, since the transliterator is waiting to see if the next character is 'h'. To remedy this, we introduce the notion of a cursor, marked by a '|' in the output string:

```java
{tau}h>{theta}
```

Now when the user types 't', tau appears, and if the next character is 'h', the tau changes to a theta. This is accomplished by maintaining a cursor position (independent of the insertion point, and invisible in the GUI) across calls to `transliterate()`. Typically, the cursor will be coincident with the insertion point, but in a case like the one above, it will precede the insertion point.
Keyboard transliteration methods maintain a set of three indices that are updated with each call to `transliterate()`, including the cursor, start, and limit. These indices are changed by the method, and they are passed in and out via a Position object. The `start` index marks the beginning of the substring that the transliterator will look at. It is advanced as text becomes committed (but it is not the committed index; that's the `cursor` index). The `cursor` index, described above, marks the point at which the transliterator last stopped, either because it reached the end, or because it required more characters to disambiguate between possible inputs. The `cursor` can also be explicitly set by rules in a `RuleBasedTransliterator`. Any characters before the `cursor` index are frozen; future keyboard transliteration calls within this input sequence will not change them. New text is inserted at the `limit` index, which marks the end of the substring that the transliterator looks at.

Because keyboard transliteration assumes that more characters are to arrive, it is conservative in its operation. It only transliterates when it can do so unambiguously. Otherwise it waits for more characters to arrive. When the client code knows that no more characters are forthcoming, perhaps because the user has performed some input termination operation, then it should call `finishTransliteration()` to complete any pending transliterations.

Inverses

Pairs of transliterators may be inverses of one another. For example, if transliterator `<b>A</b>` transliterates characters by incrementing their Unicode value (so "abc" -> "def"), and transliterator `<b>B</b>` decrements character values, then `<b>A</b>` is an inverse of `<b>B</b>` and vice versa. If we compose `<b>A</b>` with `<b>B</b>` in a compound transliterator, the result is the identity transliterator, that is, a transliterator that does not change its input text.

The `Transliterator` method `getInverse()` returns a transliterator’s inverse, if one exists, or `null` otherwise. However, the result of `getInverse()` usually will not be a true mathematical inverse. This is because true inverse transliterators are difficult to formulate. For example, consider two transliterators: `<b>AB</b>`, which transliterates the character ‘A’ to ‘B’, and `<b>BA</b>`, which transliterates ‘B’ to ‘A’. It might seem that these are exact inverses, since

```
"A" x <b>AB</b> -> "B"
"B" x <b>BA</b> -> "A"
```

where ‘x’ represents transliteration. However,

```
"ABCD" x <b>AB</b> -> "BBCD"
```
* "BBCD" x \(<b>BA</b>\) \(-\rightarrow\) "AACD"</blockquote>
*
* so \(<b>AB</b>\) composed with \(<b>BA</b>\) is not the identity. Nonetheless, \(<b>BA</b>\) may be usefully considered to be \(<b>AB</b>\)'s inverse, and it is on this basis that \(<b>AB</b>\).\(<code>.getInverse()</code> could legitimately return \(<b>BA</b>\).
*
*
* filtering
*
* each transliterator has a filter, which restricts changes to those characters selected by the filter. The filter affects just the characters that are changed -- the characters outside of the filter are still part of the context for the filter. For example, in the following even though 'x' is filtered out, and doesn't convert to y, it does affect the conversion of 'a'.
*
*<pre>
String rules = "x \(\rightarrow\) y; \(x[a]\ \rightarrow\) b; \</code>
* transliterator tempTrans = Transliterator.createFromRules(rules, Transliterator.FORWARD);
* tempTrans.setFilter(new UnicodeSet("[a]"));
* String tempResult = tempTrans.transform("xa");
* // results in \(\rightarrow\) xb
</pre>
*
* <b>IDs and display names</b>
*
* A transliterator is designated by a short identifier string or \(<em>ID</em>\). IDs follow the format \(<em>source-destination</em>\), where \(<em>source</em>\) describes the entity being replaced, and \(<em>destination</em>\) describes the entity replacing \(<em>source</em>\). The entities may be the names of scripts, particular sequences of characters, or whatever else it is that the transliterator converts to or from. For example, a transliterator from Russian to Latin might be named "Russian-Latin". A transliterator from keyboard escape sequences to Latin-1 characters might be named "KeyboardEscape-Latin1". By convention, system entity names are in English, with the initial letters of words capitalized; user entity names may follow any format so long as they do not contain dashes.
*
* In addition to programmatic IDs, transliterator objects have display names for presentation in user interfaces, returned by \{@code #getDisplayName\}.
*
* <b>Factory methods and registration</b>
*
* In general, client code should use the factory method \(<code>.getInstance()</code> to obtain an instance of a transliterator given its ID. Valid IDs may be enumerated using \(<code>.getAvailableIDs()</code>. Since transliterators are stateless, multiple calls to \(<code>.getInstance()</code> with the same ID will return the same object.
In addition to the system transliterators registered at startup, user transliterators may be registered by calling
<code>registerInstance()</code> at run time. To register a transliterator subclass without instantiating it (until it
is needed), users may call <code>registerClass()</code>.

Composed transliterators

In addition to built-in system transliterators like "Latin-Greek", there are also built-in composed transliterators. These are implemented by composing two or more component transliterators. For example, if we have
scripts "A", "B", "C", and "D", and we want to transliterate between all pairs of them, then we need to write 12
transliterators: "A-B", "A-C", "A-D", "B-A",...", "D-A", "D-B", "D-C". If it is possible to convert all scripts to an
intermediate script "M", then instead of writing 12 rule sets, we only need to write 8: "A~M", "B~M", "C~M",
"D~M", "M~A", "M~B", "M~C", "M~D". (This might not seem like a big win, but it's really 2^n vs.
<em>n</em> vs. 2<em>n</em>^2 - <em>n</em>, so as <em>n</em> gets larger the gain becomes significant. With 9 scripts, it's 18
rule sets, a big difference.) Note the use of "~" rather than "," for the script separator here; this indicates that
the given transliterator is intended to be composed with others, rather than be used as is.

Composed transliterators can be instantiated as usual. For example, the system transliterator "Devanagari-
Gujarati"
is a composed transliterator built internally as "Devanagari~InterIndic;InterIndic~Gujarati". When this
transliterator is instantiated, it appears externally to be a standard transliterator (e.g., getID() returns
"Devanagari-Gujarati").

Subclassing

Subclasses must implement the abstract method <code>handleTransliterate()</code>.

Subclasses should override the <code>transliterate()</code> method taking a <code>Replaceable</code> and the
<code>transliterate()</code> method taking a <code>String</code> and <code>StringBuffer</code> if the performance of
these methods can be improved over the performance obtained by the default implementations in this class.

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@author Alan Liu
@stable ICU 2.0


Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/Transliterator.java
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* Unicode Spoof Detection
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* Author: Alan Liu
* Created: September 4 2003
* Since: ICU 2.8
******************************************************************************
*/

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 * 01/14/2002  aliu    Creation.
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/impl/RecordReader.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/TimeUnitConstants.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/DurationFormatter.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/TimeUnit.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/DateFormatter.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/PeriodBuilder.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/Period.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/PeriodFormatterFactory.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_es.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/BreakIteratorRules.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_de.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_el.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_iw.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_it.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en.java

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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICUResourceBundleReader.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICUResourceBundleImpl.java

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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:
  *
  * Set the metadata of the new text to the metadata of the first character replaced
  *
  * If no characters are replaced, use the metadata of the previous character
  *
  * If there is no previous character (i.e. start == 0), use the following character
  *
  * If there is no following character (i.e. the replaceable was empty), use default metadata
  *
  * If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata
  *
  * If this is not the behavior, the subclass should document any differences.
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* 
* @author Alan Liu
* @stable ICU 2.0
*/

Found in path(s):
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/Replaceable.java
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Found in path(s):
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Found in path(s):
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Found in path(s):
*/opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/IllegalIcuArgumentException.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/util/BasicTimeZone.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/text/NFSubstitution.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/impl/CalendarCache.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/text/NFRule.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/impl/CalendarAstronomer.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/util/IndianCalendar.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/util/Holiday.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/impl/Utility.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/text/DigitList.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/impl/SimpleCache.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/text/LowercaseTransliterator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/text/LowercaseTransliterator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/impl/BreakCTDictionary.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/text/UnicodeFilter.java
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Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/UResourceBundleIterator.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/FilteredNormalizer2.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/Normalizer2.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/HebrewCalendar.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_de_DE.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_de_AT.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en_US.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en_GB.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en_CA.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_fr_FR.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_el_GR.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_es_MX.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_it_IT.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_da_DK.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_de_AT.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_de_DE.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en_US.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en_GB.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en_CA.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_fr_FR.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_el_GR.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_es_MX.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_it_IT.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_da_DK.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_de_AT.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_de_DE.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/data/HolidayBundle_en_US.java
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* Created: November 5 2002
* Since: ICU 2.4

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  jar/com/ibm/icu/impt/IterableComparator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/RBBIDataWrapper.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-
  jar/com/ibm/icu/text/Collator.java
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  jar/com/ibm/icu/impl/PatternTokenizer.java
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*/

* created on: 2011jan07
* created by: Markus W. Scherer
* ported from ICU4C ucharstriebuilder/.cpp
*/
Found in path(s):
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/LocaleDisplayNames.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/LocaleDisplayNamesImpl.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/CurrencyData.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICUCurrencyDisplayInfoProvider.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/IllformedLocaleException.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/RbnfLenientScannerProvider.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/NumberingSystem.java
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/*
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   ***************************************************************************/
// Hashing implementation functions. FNV hash. Respected public domain algorithm.

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/Trie2.java
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* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/StringPrepParseException.java
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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><em>Note:</em> This class does not support attributes and is not
   * intended for general use. Most clients will need to implement
   * [ @link Replaceable] in their text representation class.
   *
   * <p>Copyright &copy; IBM Corporation 1999. All rights reserved.
   *
   * @see Replaceable
   * @author Alan Liu
   * @stable ICU 2.0
   */

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/ReplaceableString.java
   No license file was found, but licenses were detected in source scan.

/*
   * @(#)TimeZone.java  1.51 00/01/19
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   */
Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/TimeZone.java
No license file was found, but licenses were detected in source scan.

/*
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   *******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/MultiComparator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/CalendarUtil.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/locale/LocaleSyntaxException.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/locale/StringTokenIterator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICULangDataTables.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICURegionDataTables.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/Trie2Writable.java
No license file was found, but licenses were detected in source scan.

/**
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   *******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/CharsetRecognizer.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/CharsetMatch.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/CharsetDetector.java
No license file was found, but licenses were detected in source scan.

/ *
   *******************************************************************************
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   *******************************************************************************

   Date   Name    Description
   11/19/2001 aliu  Creation.
   *******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/EscapeTransliterator.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/UnescapeTransliterator.java
No license file was found, but licenses were detected in source scan.

*/

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*******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/ArabicShaping.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/Bidi.java
No license file was found, but licenses were detected in source scan.

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* others. All Rights Reserved.                                               *
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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/RbnfScannerProviderImpl.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICUCache.java
No license file was found, but licenses were detected in source scan.

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* others. All rights reserved.                                               *
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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICUCache.java
No license file was found, but licenses were detected in source scan.

/*******************************************************************************
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* Corporation and others. All Rights Reserved.                               *
*******************************************************************************
Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/MessageFormat.java
No license file was found, but licenses were detected in source scan.

/**
 * Copyright (C) 2003-2008, International Business Machines Corporation and
 * others. All Rights Reserved.
 ******************************************************************************
 * Partial port from ICU4C's Grego class in i18n/gregoimp.h.
 *
 * Methods ported, or moved here from OlsonTimeZone, initially
 * for work on Jitterbug 5470:
 * tzdata2006n Brazil incorrect fall-back date 2009-mar-01
 * Only the methods necessary for that work are provided - this is not a full
 * port of ICU4C's Grego class (yet).
 *
 * These utilities are used by both OlsonTimeZone and SimpleTimeZone.
 */

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/Grego.java
No license file was found, but licenses were detected in source scan.

/**
 * Copyright (C) 2011-2013, International Business Machines
 * created on: 2011jul14
 * created by: Markus W. Scherer
 */

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/MessagePatternUtil.java
No license file was found, but licenses were detected in source scan.

/**
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 *
* others. All Rights Reserved.
*
******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/ByteArrayWrapper.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/RawCollationKey.java
No license file was found, but licenses were detected in source scan.

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* others. All Rights Reserved.                                           *
******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/StringPrep.java
No license file was found, but licenses were detected in source scan.

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* Corporation and others. All Rights Reserved.                          *
******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/Assert.java
No license file was found, but licenses were detected in source scan.

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******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ICUConfig.java
No license file was found, but licenses were detected in source scan.

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* and others. All Rights Reserved.                                         *
******************************************************************************
Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/CurrencyAmount.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/Measure.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/RBNFPostProcessor.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/Transform.java
No license file was found, but licenses were detected in source scan.
/*
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*******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/TimeZoneTransition.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/DateTimeRule.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/AnnualTimeZoneRule.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/TimeZoneRule.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/TimeArrayTimeZoneRule.java
No license file was found, but licenses were detected in source scan.

/*
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*******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/UForwardCharacterIterator.java
No license file was found, but licenses were detected in source scan.

/*
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*******************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/duration/impl/ResourceBasedPeriodFormatterDataService.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/UFormat.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/Punycode.java
No license file was found, but licenses were detected in source scan.

/
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****************************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/LocaleMatcher.java
No license file was found, but licenses were detected in source scan.

/
****************************************************************************************
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****************************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/impl/ResourceBundleWrapper.java
No license file was found, but licenses were detected in source scan.

/
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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/TimeUnitAmount.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/TimeUnit.java
No license file was found, but licenses were detected in source scan.

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**************************************************************************
*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/util/ChineseCalendar.java
No license file was found, but licenses were detected in source scan.
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/UnicodeCompressor.java
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/UnicodeDecompressor.java

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

/*

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*/

Found in path(s):
* /opt/cola/permits/1158685643_1619822710.47/0/icu4j-51-1-sources-1-jar/com/ibm/icu/text/RBBISymbolTable.java

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

/*

*******************************************************************************
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* others. All Rights Reserved.                                                *
*******************************************************************************
*/
/**
* <code>RuleBasedTransliterator</code> is a transliterator
* that reads a set of rules in order to determine how to perform
* translations. Rule sets are stored in resource bundles indexed by
* name. Rules within a rule set are separated by semicolons (';').
* To include a literal semicolon, prefix it with a backslash ('\').
* Unicode Pattern_White_Space is ignored.
* If the first non-blank character on a line is '#' ,
* the entire line is ignored as a comment. </p>
* 
* <p>Each set of rules consists of two groups, one forward, and one
* reverse. This is a convention that is not enforced; rules for one
* direction may be omitted, with the result that translations in
* that direction will not modify the source text. In addition,
* bidirectional forward-reverse rules may be specified for
* symmetrical transformations.</p>
* 
* <p><b>Rule syntax</b></p>
* 
* <dl>
* <dt><code>$alefmadda=\u0622;</code></dt>
* <dd><strong>Variable definition.</strong> The name on the
*
left is assigned the text on the right. In this example,

After this statement, instances of the left hand name,

```
&quoat;$alefmadda</code>&quoat;, will be replaced by
```
the Unicode character U+0622. Variable names must begin
```
with a letter and consist only of letters, digits, and
```
underscores. Case is significant. Duplicate names cause
```
an exception to be thrown, that is, variables cannot be
```
redefined. The right hand side may contain well-formed
```
text of any length, including no text at all (&quot;</code>$empty=;</code>&quot;).
```
The right hand side may contain embedded <code>UnicodeSet</code>
```
patterns, for example, &quot;</code>$softvowel=[eiyEiY]\</code>&quot;.
```
</dd>
```
<dd>&nbsp;</dd>
```
<dt><code>ai&gt;$alefmadda;</code></dt>
```
<dd><strong>Forward translation rule.</strong> This rule
```
states that the string on the left will be changed to the
```
string on the right when performing forward
```
transliteration.</dd>
```
<dt>&nbsp;</dt>
```
<dt><code>ai&lt;$alefmadda;</code></dt>
```
<dd><strong>Reverse translation rule.</strong> This rule
```
states that the string on the right will be changed to
```
the string on the left when performing reverse
```
transliteration.</dd>
```
</dl>
```
</p>
```
Translation rules consist of a <em>match pattern</em> and an <em>output
```
string</em>. The match pattern consists of literal characters,
```
optionally preceded by context, and optionally followed by
```
context. Context characters, like literal pattern characters,
```
must be matched in the text being transliterated. However, unlike
```
literal pattern characters, they are not replaced by the output
```
text. For example, the pattern &quot;</code>abc\{def\}</code>&quot;
```
indicates the characters &quot;</code>def\</code>&quot; must be
```
preceded by &quot;</code>abc</code>&quot; for a successful match.
```
If there is a successful match, &quot;</code>def</code>&quot; will
```
be replaced, but not &quot;</code>abc</code>&quot;. The final &quot;</code>}</code>&quot;
```
is optional, so &quot;</code>abc\{def\</code>&quot; is equivalent to
```
&quoat;</code>abc</code>&quot;. Another example is &quot;</code>[123]456</code>&quot;.
```
(or &quot;</code>[123]456</code>&quot; in which the literal
* pattern "123" must be followed by "456".

* <p>The output string of a forward or reverse rule consists of
* characters to replace the literal pattern characters. If the
* output string contains the character '<code>|</code>', this is
* taken to indicate the location of the <em>cursor</em> after
* replacement. The cursor is the point in the text at which the
* next replacement, if any, will be applied. The cursor is usually
* placed within the replacement text; however, it can actually be
* placed into the preceding or following context by using the
* special character '<code>@</code>'. Examples:</p>

* `<blockquote>
* <p>a {foo} z &gt; @ bar; # foo -&gt; bar, move cursor
* before a<br>
* {foo} xyz &gt; bar @@@; #&nbsp;foo -&gt; bar, cursor between
* y and z</p>
* </blockquote>`

* `<p>&lt;b&gt;UnicodeSet&lt;/b&gt;</p>`

* `<p>UnicodeSet patterns may appear anywhere that
* makes sense. They may appear in variable definitions.
* Contrariwise, &lt;code&gt;UnicodeSet&lt;/code&gt; patterns may themselves
* contain variable references, such as &amp;quot;&lt;code&gt;$a=[a-z]:$not_a=[^$a]</code>&amp;quot;;
* or &amp;quot;&lt;code&gt;$range=a-z;$ll=[$range]</code>&amp;quot;.&lt;/p&gt;

* `<p>UnicodeSet patterns may also be embedded directly
* into rule strings. Thus, the following two rules are equivalent:</p>`

* `<blockquote>
* <p>$vowel=[aeiou]; $vowel+'&'; # One way to do this<br>
* [aeiou]+'&';
* &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n#92;"n;
The segment of the input string to be copied is delimited by "<code>(</code>" and "<code>)</code>". Up to nine segments may be defined. Segments may not overlap. In the output string, "<code>$1</code>" through "<code>$9</code>" represent the input string segments, in left-to-right order of definition.

**Anchors**

Patterns can be anchored to the beginning or the end of the text. This is done with the special characters '<code>^</code>' and '<code>$</code>'. For example:

```
^ a &gt; 'BEG_A'; 
  a > 'A'; 
  z $ &gt; 'END_Z'; 
  z > 'Z';
```

It is also possible to match the beginning or the end of the text using a <code>UnicodeSet</code>. This is done by including a virtual anchor character '<code>$</code>' at the end of the set pattern. Although this is usually the match character for the end anchor, the set will match either the beginning or the end of the text, depending on its placement. For example:

```
$x = [a-z$]; 
$x 1 &gt; 2; 
3 $x &gt; 4;
```

**Example**

The following example rules illustrate many of the features of the rule language.

```
<table border="0" cellpadding="4">
  <tr>
    <td valign="top">Rule 1.</td>
    <td valign="top" nowrap><code>abc{def}&gt;x|y</code></td>
  </tr>
</table>
```
Applying these rules to the string "adefabcdefz" yields the following results:

<table>
<thead>
<tr>
<th>adefabcdefz</th>
<th>Initial state, no rules match. Advance cursor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>defabcdefz</td>
</tr>
<tr>
<td>ade</td>
<td>fabcdefz</td>
</tr>
<tr>
<td>adef</td>
<td>abcdefz</td>
</tr>
<tr>
<td>adefab</td>
<td>cdefz</td>
</tr>
</tbody>
</table>
* with &quot;<code>xy</code>&quot; and back up the cursor
* to before the &apos;&lt;code&gt;y</code>&apos;.&lt;/td&gt;
* &lt;/tr&gt;
* &lt;tr&gt;
*    &lt;td valign="top" nowrap&gt;&lt;code&gt;adefabcxyz</code&gt;&lt;/td&gt;
*    &lt;td valign="top">Although &quot;&lt;code&gt;xz</code>&quot; is present, rule 2 does not match because the cursor is
*    before the &apos;&lt;code&gt;y</code>&apos;, not before the &apos;&lt;code&gt;x</code>&apos;.
*    Rule 3 does match. Replace &quot;&lt;code&gt;y</code>&quot; with &quot;&lt;code&gt;zq</code>&quot;&lt;/td&gt;
* &lt;/tr&gt;
* &lt;tr&gt;
*    &lt;td valign="top" nowrap&gt;&lt;code&gt;adefabcxq</code&gt;&lt;/td&gt;
*    &lt;td valign="top">The cursor is at the end;
*    transliteration is complete.&lt;/td&gt;
* &lt;/tr&gt;
* &lt;/table&gt;

* &lt;p&gt;The order of rules is significant. If multiple rules may match
* at some point, the first matching rule is applied. &lt;/p&gt;

* &lt;p&gt;Forward and reverse rules may have an empty output string.
* Otherwise, an empty left or right hand side of any statement is a
* syntax error. &lt;/p&gt;

* &lt;p&gt;Single quotes are used to quote any character other than a
* digit or letter. To specify a single quote itself, inside or
* outside of quotes, use two single quotes in a row. For example,
* the rule &quot;&lt;code&gt;'&gt;'&gt;o'clock</code>&quot; changes the
* string &quot;&lt;code&gt;&gt;</code&gt; to the string &quot;&lt;code&gt;o'clock</code>&quot;&lt;/p&gt;

* &lt;p&gt;&lt;b&gt;Notes&lt;/b&gt; &lt;/p&gt;

* &lt;p&gt;While a RuleBasedTransliterator is being built, it checks that
* the rules are added in proper order. For example, if the rule
* &quot;&lt;code&gt;x</code>&quot; is followed by the rule &quot;&lt;code&gt;y</code>&quot;, then the second rule will throw an exception. The reason is that
* the second rule can never be triggered, since the first rule
* always matches anything it matches. In other words, the first
* rule &lt;em&gt;masks&lt;/em&gt; the second rule. &lt;/p&gt;

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* @author Alan Liu
* @internal
* @deprecated This API is ICU internal only.
1.181 jackson-jaxrs-base 2.10.4

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1.182 mule-transport-jdbc 3.6.1
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/CheckDatabaseOrUrl.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/MssqlDatasourceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/sqlstrategy/CallableSqlStatementStrategy.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/MysqlDataSourceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/JdbcNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/JdbcMessageReceiver.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/xar/CompositeDataSourceDecorator.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/sqlstrategy/DefaultSqlStatementStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/sqlstrategy/SelectSqlStatementStrategy.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/JdbcTemplateReceiver.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/PostgresqlDataSourceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/sqlstrategy/SqlStatementStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/DataSourceDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/DefaultDataSourceDecorator.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-jar/org/mule/transport/jdbc/config/DataSourceWrapper.java
jar/org/mule/transport/jdbc/JdbcTransactionFactory.java
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jar/org/mule/transport/jdbc/xa/DataSourceDecorator.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/xa/StatementInvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
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* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/JdbcMessageDispatcher.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/sqlstrategy/SqlStatementStrategyExecutor.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
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* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
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* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/JdbcEndpointURIBuilder.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/config/Db2DatasourceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/config/SQLExceptionReader.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/config/OracleDataSourceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/store/JdbcObjectStore.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/config/AbstractDataSourceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/config/AbstractHostPortDatabaseDataSourceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582879_1594525742.93/0/mule-transport-jdbc-3-6-1-sources-1-
jar/org/mule/transport/jdbc/JdbcConnector.java

1.183 libnuma 2.0.12-5.el7
1.183.1 Available under license:

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1.184 xsdlib 2010.1

1.185 log-rotate 3.8.6 19.el7

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import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
 * A <code>CopyingRangeMarker</code> can be used to track positions when executing text edits. Additionally a copying range marker stores a local copy of the text it captures when it gets executed.
 */

public final class CopyingRangeMarker extends TextEdit {
  
}
private String fText;

/**
 * Creates a new <tt>CopyRangeMarker</tt> for the given offset and length.
 * @param offset the marker's offset
 * @param length the marker's length
 */
public CopyingRangeMarker(int offset, int length) {
    super(offset, length);
}

/*/ Copy constructor */
private CopyingRangeMarker(CopyingRangeMarker other) {
    super(other);
    fText= other.fText;
}

/*@ see TextEdit#doCopy */
protected TextEdit doCopy() {
    return new CopyingRangeMarker(this);
}

/*@ see TextEdit#accept0 */
protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/*@ see TextEdit#performDocumentUpdating */
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText= document.get(getOffset(), getLength());
    fDelta= 0;
    return fDelta;
}
/* non Java-doc */
*/
/* package */ boolean deleteChildren() {
    return false;
}

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1.191 urllib3 1.10.2

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# Contributions to the urllib3 project

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.
* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

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  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

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  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <grafatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
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* Krishna Prasad <kprasad.iitd@gmail.com>
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* Aaron Meurer <asmearer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/ConditionalPermissionUpdate.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/FindHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/EventHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/ListenerHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/launch/Framework.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/ConditionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/FrameworkEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/ConditionalPermissionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Version.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundlePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/Condition.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/BundleLocationCondition.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/AllServiceListener.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/launch/FrameworkFactory.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SignerProperty.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleReference.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/packageadmin/RequiredBundle.java

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Return the certificates for the signers of this bundle and the
certificate chains for those signers.

@返am signersType If [@link SIGNERS_ALL] is specified, then information
on all signers of this bundle is returned. If
[@link SIGNERS_TRUSTED] is specified, then only information on
the signers of this bundle trusted by the framework is returned.
@return The <code>X509Certificate</code>s for the signers of this bundle
and the <code>X509Certificate</code> chains for those signers.
The keys of the <code>Map</code> are the
<code>X509Certificate</code>s of the signers of this bundle. The
value for a key is a <code>List</code> containing the
<code>X509Certificate</code> chain for the signer. The first item
in the <code>List</code> is the signer's
<code>X509Certificate</code> which is then followed by the rest
of the <code>X509Certificate</code> chain. The returned
<code>Map</code> will be empty if there are no signers. The
returned <code>Map</code> is the property of the caller who is
free to modify it.
@throws IllegalArgumentException If the specified
@return signersType is not [@link SIGNERS_ALL] or
[@link SIGNERS_TRUSTED].
@since 1.5

Found in path(s):
/opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/Bundle.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/BundleException.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/InvalidSyntaxException.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/ServiceFactory.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/FrameworkListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/BundleListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/ServiceListener.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/BundleActivator.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/BundleContext.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceRegistration.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServicePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceReference.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Filter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Configurable.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLStreamHandlerSetter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/AbstractURLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLConstants.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLStreamHandlerSetter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/AbstractURLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLConstants.java

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* Creates a new `<code>PackagePermission</code>` object.

* The name is specified as a normal Java package name: a dot-separated string. Wildcards may be used.

* `name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot;&gt; | *`  

* Examples:

  * `<pre>`
    * org.osgi.service.http
    * javax.servlet.*
  * `<pre>`

* For the `<code>import</code>` action, the name can also be a filter expression. The filter gives access to the following attributes:

  * `<ul>`
    * `<li>`signer - A Distinguished Name chain used to sign the exporting bundle. Wildcards in a DN are not matched according to the filter string rules, but according to the rules defined for a DN chain.</li>`
    * `<li>`location - The location of the exporting bundle.</li>`
    * `<li>`id - The bundle ID of the exporting bundle.</li>`
    * `<li>`name - The symbolic name of the exporting bundle.</li>`
    * `<li>`package.name - The name of the requested package.</li>`
  * `<ul>`

* Filter attribute names are processed in a case sensitive manner.

* Package Permissions are granted over all possible versions of a package.

* A bundle that needs to export a package must have the appropriate `<code>PackagePermission</code>` for that package; similarly, a bundle that
needs to import a package must have the appropriate
<code>PackagePermission</code> for that package.

Permission is granted for both classes and resources.

@<param name="name"> Package name or filter expression. A filter expression can
only be specified if the specified action is <code>import</code>.
@<param name="actions"> <code>exportonly</code>, <code>import</code> (canonical
order).
@<throws name="IllegalArgumentException"> If the specified name is a filter
expression and either the specified action is not
<code>import</code> or the filter has an invalid syntax.
*/

Found in path(s):
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### Specified the persistent storage area used by the framework. The value of this property must be a valid file path in the file system to a directory. If the specified directory does not exist then the framework will create the directory. If the specified path exists but is not a directory or if the framework fails to create the storage directory, then framework initialization must fail. The framework is free to use this directory as it sees fit. This area can not be shared with anything else. If this property is not set, the framework should use a reasonable platform default for the persistent storage area.

@since 1.5

---

**1.208 kexec-tools 2.0.7-38.el7**

**1.208.1 Available under license:**

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

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

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Jean-loup Gailly        Mark Adler
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Fagin, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
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Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
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Libby, Kendall
Lobbes, Phillip E.
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Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Buor-en, Lin
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Fontenelle, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frederic
- Hein, Jochen
- Hufthammer, Karl Ove
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
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- Nylander, Daniel
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1.229 mule-module-jbossts 3.6.1

1.229.1 Available under license:
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: jenkins
Build-Jdk: 1.7.0_72
Specification-Title: JBoss Transactions Integration
Specification-Version: 3.6.1
Specification-Vendor: MuleSoft, Inc.
Implementation-Title: JBoss Transactions Integration
Implementation-Version: 3.6.1
Implementation-Vendor: org.mule.modules
Implementation-Vendor: MuleSoft, Inc.
Build-Date: 2015-Feb-13 12:39:43
Build-Revision: b795785f
Description: Mule ESB and Integration Platform
Dev-List-Email: mule-esb@mulesoft.com
License: CPAL v1.0 http://www.mulesoft.com/CPAL/
More-Info: For more information go to http://www.mulesoft.org
Product-Url: http://www.mulesoft.org
Recommended-Jdks: [1.7.0_60,1.8)
Support: Get commercial support: http://www.mulesoft.com/support
Supported-Jdks: [1.7.0,1.8)
Vendor-Url: http://www.mulesoft.com

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025582807_1594434470.19/0/mule-module-jbossts-3-6-1-jar/META-INF/MANIFEST.MF

1.230 jetty-io 9.0.7.v20131107

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/NetworkTrafficSelectChannelEndPoint.java
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/package-info.java
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/ArrayByteBufferPool.java
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/SelectorManager.java
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/ChannelEndPoint.java
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/RuntimeIOException.java
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/Connection.java
* /opt/ws_local/PERMITS_SQL/1025582804_1594246275.54/0/jetty-io-9-0-7-v20131107-sources-jar/org/eclipse/jetty/io/WriterOutputStream.java

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1.231 geronimo-ejb-2-1-spec 1.1

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1.232 gtk 2.24.31-1.el7

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<h2>1.236 pycparser 2.20</h2>

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pycparser -- A C parser in Python

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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.)

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.238 bzip2 1.0.6-13.el7

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

1.239 libsndfile 1.0.25 11.el7
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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Version 2, June 1991

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) 
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) 
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. 
 * http://www.hypermall.com/ 
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY 
 * interrupts us (except possibly for removal/insertion of the cable?) 
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos 
 * and spelling mistakes. 
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on 
 * loss of link, and correctly re-enable PHY when link is 
 * re-established. (put back CFG_PHYIE) 
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. 
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 
 * 
 * Linux driver for the IDT77201 NICStAR PCI ATM controller. 
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; 
 * see init_nicstar() for PHY initialization to change this. This driver 
 * expects the Linux ATM stack to support scatter-gather lists 
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. 
 * 
 * Implementing minimal-copy of received data: 
 * IDT always receives data into a small buffer, then large buffers 
 * as needed. This means that data must always be copied to create 
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP) 
 * Fix is simple: make large buffers large enough to hold entire 
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then 
 * copy small buffer contents to head of large buffer. 
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* M. Welsh, 6 July 1996
*
*
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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1.243 mule-module-http 3.6.1

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1.244 zlib 1.2.11

1.244.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.245 xmlschema 2.2.1

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1.249 milyn-smooks-scripting 1.4

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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
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Mesa 3-D graphics library
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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        <h3 class="section"><a name="Project Management Committee"></a>Project Management Committee</h3>
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Active Members

Bruce Atherton (bruce@callenish.com - http://www.callenish.com/~bruce)
Currently a Systems Architect with Avue Technologies, Bruce has been working with Java since version 1.0a2. He also claims to be one of the first people to mark up a FAQ with HTML, for a web browser of the distant past called Cello.

Stephane Bailliez

Matt Benson

Stefan Bodewig (stefan.bodewig@freenet.de - http://stefan.samaflost.de/)

Dominique Devienne (ddevienne@apache.org)
Dominique has been involved non-stop with the Ant user community since the 1.4 days, trying without success to answer posts as well or as often as Diane Holt after she left the user list. He is opinionated, always striving for the best possible design. While at Landmark Graphics, he designed and implemented large Ant/CppTasks builds for mixed Java/C++ projects.

Erik Hatcher (ehatcher@apache.org)
Erik is the co-author of Java Development with Ant and speaks on Ant and other topics at No Fluff, Just Stuff symposiums as well as other venues. Erik is the President of eHatcher Solutions, Inc.

Martijn (J.M.) Kruithof (ant@kruithof.xs4all.nl)
Martijn Kruithof is a system engineer working with and on Java products in a telecommunication network setting.
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Conor MacNeill (conor at cortexebusiness.com.au)

Conor is a senior developer at Cortex eBusiness, where he develops J2EE based systems. In his spare time he helps with the development of the Ant build tool. He is also serving as the Chairman of this PMC.

Jan Matrne (jhm at apache.org)

Jan is consultant for OOA/D in the computer centre of the government of Northrhine Westfalia / Germany.

Peter Reilly

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Sam takes a perverse pleasure in integrating disparate things. He is a member of the PHP group, Apache XML PMC, Apache sponsor for the xml-soap subproject and convener of ECMA TC39 TG3.

Magesh Umasankar (umagesh at apache.org)

Magesh is a lead software developer at Manugistics, where he is responsible for some of the Revenue Optimization solutions.
<b>Christoph Wilhelms</b> (christoph.wilhelms at t-online.de)
<br />
Christoph works as software engineer at the world's biggest travel company <a href="http://www.tui.com">TUI</a>. His passion are all UI related things so at the Ant-Project he takes care of Antidote - the Ant GUI.
</p>

<h4 class="subsection">
Emeritus Members
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<b>James Duncan Davidson</b> (duncan at x180.net - <a href="http://x180.net/">http://x180.net/</a>)
<br />
</p>

By day, Duncan works in the Open Source Program Office at Sun Microsystems where he helps various Open Source efforts within Sun "do the right thing". Previously at Sun he was responsible for the Servlet API Specifications 2.1 and 2.2 as well as the Java API for XML Parsing 1.0 and was the original author of Tomcat and Ant. He was one of the rabble-rousers within Sun that helped make the Jakarta Project a reality and served as the first Chairman of the Jakarta PMC.
</p>

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<b>Diane Holt</b>
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<p>
<b>Donald Leslie</b>
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</p>

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</h3>
<h4 class="subsection">
Active Committers
</h4>
<p>
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<b>Jose Alberto Fernandez</b>
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<br />
Jesse has been using Java since 1998 and joined Sun Microsystems as part of the company that produced the NetBeans IDE. After discovering Ant in the 1.2 days, he wrote most of NetBeans' Ant integration. Recently he has worked on the NetBeans 4.0 project system, based heavily on Ant as a build tool.</p>

<p><b>Kevin Jackson</b> (foamdino at gmail.com)</p>

<p><b>Alexey Solofnenko</b> (trelony at gmail.com)</p>

<h4 class="subsection">Emeritus Committers</h4>

<p><b>Preston Bannister</b></p>

<p><b>Nick Davis</b></p>

<p><b>Darrell DeBoer</b></p>

<p><b>Peter Donald</b> (peter at apache.org)
<br />
Peter is an avid java developer who is active in the <a href="http://jakarta.apache.org/avalon/">Avalon</a> and <a href="http://ant.apache.org/">Ant</a> projects. In his spare time he develops a distributed virtual environment (ie military simulator or 3D game) using java technologies.
</p>

<p><b>Danno Ferrin</b> (shemnon at yahoo.com)</p>

<p>Danno has been programming in Java since Summer 96. Danno wrote a JSP engine on his own and released it the very same day Jakarta was announced at JavaOne. Since then, he decided to join the Jakarta project in a spirit of co-operation over competition.</p>

<p><b>Simeon H.K. Fitch</b> (simeon.fitch at mseedsoft.com)
Simeon is owner of Mustard Seed Software, which specializes in developing distributed applications and user interfaces for the science, engineering, and research oriented clients. He is the lead architect and developer for Antidote, the GUI for Ant.

Thomas Haas (tha at whitestein.com)

Tom is interested in distributed systems, Java middleware and worked on an implementation of the JMS specification. At Whitestein Technologies he is working on bringing software agent technology and J2EE together.

Jason Hunter (jh at servlets.com)

Jason is author of "Java Servlet Programming" (O'Reilly) and publisher of http://www.servlets.com/. He works at CollabNet.

Justyna Horwat (horwat at apache.org)

Arun Jamwal

Arnout J. Kuiper (ajkuiper at planet.nl)

Arnout J. Kuiper is a Java Architect with the Sun Java Center at Sun Microsystems. His main focus is web-related technologies on the Java platform (J2EE, XML, ...).

Stefano Mazzocchi (stefano at apache.org)

Stefano is addicted to software design, Java programming and open development. In the last 4 years, he has contributed way too much time to Apache, expecially on JServ, JMeter, Avalon, JAMES, Ant, Cocoon and helping to bring more projects into Apache-land, such as FOP, Batik, POI and Xindice. The problem is that he's too picky to be satisfied :-)

Glenn McAllister (glenn at somanetworks.com)
Glenn McAllister is a software developer at SOMA Networks, was formerly the same at IBM (plus tech writer plus build guy), and does some writing on the side for the VADD Technical Journal.

Craig McClanahan (Craig.McClanahan at eng.sun.com)

Craig was involved in the Apache JServ project, focused on implementing a next generation architecture and feature set for the core servlet engine. He has recently joined Sun as technical lead for the servlet and JSP reference implementation.

Adam Murdoch

Harish Prabhandham (harishp at onebox.com)

Harish is an engineer with the J2EE team at Sun, primarily responsible for implementing security in the J2EE Reference Implementation (RI). He integrated various technologies including servlet/JSP implementations from Tomcat into the J2EE RI. These days, he hacks PHP code during the day.

Nico Seesel

Gal Shachor (shachor at il.ibm.com)

Gal Shachor is a research staff member at IBM. He wrote his first Servlet container (ServletExpress) at the beginning of 1997. Later on ServletExpress (and Gal) merged into WebSphere, and Gal participated in the development of WebSphere 1, 2 and 3.

Jon S. Stevens (jon at collab.net)

Jon is a Co-Founder of Clear Ink Corp and recently left to work on a next generation Open Source Java Servlet based Issue/Bug tracking system for CollabNet. He is an active developer of the Apache JServ Servlet Engine for the Apache Web Server and Co-Author of the Element Construction Set as
well as the web application framework, <a href="http://java.apache.org/turbine/">Turbine</a>.

<b>Jesse Stockall</b>

James Todd (jwtood at pacbell.net)

James has developed real time customer oriented apps for roughly 10 years the last 5 of which have predominately been fully integrated, front and back, extraNet implementations which have been based on Apache, Java and Tcl.

<b>Anil Vijendran</b> (akv at eng.sun.com)

Anil Vijendran is the principal developer of the JSP engine in Tomcat. He's done some pretty scary things in his past life -- implementing the CORBA IDL to C++ 2.0 mapping, skydiving, IDL to Java compilers, Object Databases (SIGSEV, you da man!) for C++, Java ORB and EJB runtime environments -- in that order.

Ant's logo is the result of a logo contest, it has been designed by

<b>Nick King</b>
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1.256 javax-inject 1
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$Id: XPath.java,v 1.17 2007/11/10 05:29:02 jhunter Exp $

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$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/JDOMParseException.java
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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/EntityRef.java
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$Id: DOMOutputter.java,v 1.43 2007/11/10 05:29:01 jhunter Exp $

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$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp$

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$Id: JAXPParseFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp $

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$Id: ElementFilter.java,v 1.20 2007/11/10 05:29:00 jhunter Exp $

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$Id: SAXOutputter.java,v 1.40 2007/11/10 05:29:01 jhunter Exp $

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$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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*/opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/filter/AndFilter.java
No license file was found, but licenses were detected in source scan.

/*--
$Id: XSLTransformException.java,v 1.4 2007/11/10 05:29:02 jhunter Exp $

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Found in path(s):
*/opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/XSLTransformException.java
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$Id: DocType.java,v 1.32 2007/11/10 05:28:58 jhunter Exp $

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$Id: NamespaceStack.java,v 1.14 2007/11/10 05:29:01 jhunter Exp $

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/*

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* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/IllegalTargetException.java
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/*/

$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp$

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Found in path(s):
* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/input/SAXHandler.java
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$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp$

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$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp$

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$Id: Content.java,v 1.6 2007/11/10 05:28:58 jhunter Exp $

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$Id: SAXBuilder.java,v 1.92 2007/11/10 05:29:00 jhunter Exp$

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$Id: OracleV1DOMAdapter.java,v 1.20 2007/11/10 05:28:59 jhunter Exp $

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$Id: OrFilter.java,v 1.5 2007/11/10 05:29:00 jhunter Exp $

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$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp $
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$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp $

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$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp $

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jar/org/jdom/adapters/CrimsonDOMAdapter.java
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$Id: XMLOutputter.java,v 1.116 2007/11/10 05:29:01 jhunter Exp $

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$Id: Namespace.java,v 1.43 2007/11/10 05:28:59 jhunter Exp $

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*/

Found in path(s):
* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/adapters/XML4JDOMAdapter.java

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

$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp$

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Found in path(s):
* /opt/cola/permits/1136211697_1613709845.99/0/jdom-1-1-sources-1-jar/org/jdom/transform/JDOMResult.java

1.260 mule-module-jbpm 3.6.1

1.260.1 Available under license:
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: jenkins
Build-Jdk: 1.7.0_72
Specification-Title: BPM Support - JBoss jBPM
Specification-Version: 3.6.1
Specification-Vendor: MuleSoft, Inc.
Implementation-Title: BPM Support - JBoss jBPM
Implementation-Version: 3.6.1
Implementation-Vendor-Id: org.mule.modules
Implementation-Vendor: MuleSoft, Inc.
Build-Date: 2015-Feb-13 12:47:56
Build-Revision: b795785f
Description: Mule ESB and Integration Platform
Dev-List-Email: mule-esb@mulesoft.com
License: CPAL v1.0 http://www.mulesoft.com/CPAL/
More-Info: For more information go to http://www.mulesoft.org
Product-Url: http://www.mulesoft.org
Recommended-Jdks: [1.7.0_60,1.8)
Support: Get commercial support: http://www.mulesoft.com/support
Supported-Jdks: [1.7.0,1.8)
Vendor-Url: http://www.mulesoft.com

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025582768_1594411516.05/0/mule-module-jbpm-3-6-1-jar/META-INF/MANIFEST.MF
1.261 procps 3.3.10-27.el7

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

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1.267 oro 2.0.8

1.268 dbus-glib 0.100-7.el7

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1.271 nmap 6.40-19.el7

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On all platforms, Nmap is normally linked with:
o libpcap: Network packet capture library. Distributed with Nmap in the
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libdnet: Networking library, used for low-level tasks such as sending
ethernet frames. A modified version is distributed with Nmap in the
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is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/

PCRE: Perl-compatible regular expressions. PCRE is part of Nmap’s
version detection and is also made available as an NSE library.
Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/

liblua: Lua programming language. Lua is the implementation language
of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
running Lua programs inside Nmap. Distributed with Nmap in the liblua
subdirectory. liblua can be omitted by configuring with the
--without-liblua configuration directive.
http://www.lua.org/

OpenSSL: Cryptographic library. OpenSSL is used by service detection
and by NSE to connect to SSL services. NSE also provides access to
OpenSSL functions such as encryption and digest calculation. OpenSSL
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LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/

libsvn. The Subversion library, used by the updater program


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Zenmap and Ndiff require:

Python. The binary distributions of Nmap include a Python interpreter
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- libgailutil: Accessibility support for GTK+.
  http://www.cairographics.org/

- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

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- Expat: XML parser library.
  http://expat.sourceforge.net/

- fontconfig: font configuration library.
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- FreeType: font rendering library.
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- Various X.org libraries. These were built using MacPorts.
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Written by:       Philip Hazel
Email local part: ph10
Email domain:     cam.ac.uk

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

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

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linked with it, is called a "work that uses the Library". Such a
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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
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Otherwise, if the work is a derivative of the Library, you may
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1.273 grizzly-http 2.3.16

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1.275 mule-transport-servlet 3.6.1
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* /opt/ws_local/PERMITS_SQL/1025582731_1594525947.72/0/mule-transport-servlet-3-6-1-sources-1-jar/org/mule/transport/servlet/ServletResponseWriter.java
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* /opt/ws_local/PERMITS_SQL/1025582731_1594525947.72/0/mule-transport-servlet-3-6-1-sources-1-jar/org/mule/transport/servlet/CachedHttpServletRequest.java
1.276 libnl3 3.2.28-4.el7

1.276.1 Available under license :

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4- jar/info/dmtree/security/DmtPrincipalPermission.java
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 */
* Note, that it is not valid to revoke a permission from a specific
* principal if that permission is granted globally to all principals.
*
* @param principal The entity from which permissions should be revoked, or
* &quot;*,&quot; to revoke permissions from all principals.
* @param permissions The permissions to be revoked. The parameter can be a
* logical &lt;code&gt;or&lt;/code&gt; of more permission constants defined in
* this class.
* @return a new &lt;code&gt;Acl&lt;/code&gt; instance
* @throws IllegalArgumentException if &lt;code&gt;principal&lt;/code&gt; is not a
* valid principal name, if &lt;code&gt;permissions&lt;/code&gt; is not a
* valid combination of the permission constants defined in this
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*/
/**
* Service for administering configuration data.
* 
* The main purpose of this interface is to store bundle configuration data
* persistently. This information is represented in &lt;code&gt;Configuration&lt;/code&gt;
* objects. The actual configuration data is a &lt;code&gt;Dictionary&lt;/code&gt; of
* properties inside a &lt;code&gt;Configuration&lt;/code&gt; object.
* 
* There are two principally different ways to manage configurations. First
* there is the concept of a Managed Service, where configuration data is
* uniquely associated with an object registered with the service registry.
Next, there is the concept of a factory where the Configuration Admin service will maintain 0 or more `Configuration` objects for a Managed Service Factory that is registered with the Framework.

The first concept is intended for configuration data about "things/services" whose existence is defined externally, e.g. a specific printer. Factories are intended for "things/services" that can be created any number of times, e.g. a configuration for a DHCP server for different networks.

Bundles that require configuration should register a Managed Service or a Managed Service Factory in the service registry. A registration property named `service.pid` (persistent identifier or PID) must be used to identify this Managed Service or Managed Service Factory to the Configuration Admin service.

When the ConfigurationAdmin detects the registration of a Managed Service, it checks its persistent storage for a configuration object whose `service.pid` property matches the PID service property ( `service.pid`) of the Managed Service. If found, it calls the `@link ManagedService#updated` method with the new properties. The implementation of a Configuration Admin service must run these call-backs asynchronously to allow proper synchronization.

When the Configuration Admin service detects a Managed Service Factory registration, it checks its storage for configuration objects whose `service.factoryPid` property matches the PID service property of the Managed Service Factory. For each such `Configuration` objects, it calls the `ManagedServiceFactory.updated` method asynchronously with the new properties. The calls to the `updated` method of a `ManagedServiceFactory` must be executed sequentially and not overlap in time.

In general, bundles having permission to use the Configuration Admin service can only access and modify their own configuration information. Accessing or modifying the configuration of another bundle requires `ConfigurationPermission[*,CONFIGURE]`.

`Configuration` objects can be `bound` to a specified bundle location. In this case, if a matching Managed Service or Managed Service Factory is registered by a bundle with a different location, then the
* Configuration Admin service must not do the normal callback, and it should
* log an error. In the case where a <code>Configuration</code> object is not
* bound, its location field is <code>null</code>, the Configuration Admin
* service will bind it to the location of the bundle that registers the first
* Managed Service or Managed Service Factory that has a corresponding PID
* property. When a <code>Configuration</code> object is bound to a bundle
* location in this manner, the Configuration Admin service must detect if the
* bundle corresponding to the location is uninstalled. If this occurs, the
* <code>Configuration</code> object is unbound, that is its location field is
* set back to <code>null</code>.

* The method descriptions of this class refer to a concept of "the calling
* bundle". This is a loose way of referring to the bundle which obtained the
* Configuration Admin service from the service registry. Implementations of
* <code>ConfigurationAdmin</code> must use a
* { @link org.osgi.framework.ServiceFactory } to support this concept.
* 
* @version $Revision: 7356 $
*/

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/metatype/MetaTypeProvider.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/metatype/AttributeDefinition.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/prefs/Preferences.java

* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/ReferenceMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/ReferenceListMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/Target.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/ServiceUnavailableException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/PropsMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/ReferenceListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/ComponentMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/BlueprintEvent.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/MapMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/RefMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/BlueprintListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/NonNullMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/RegistrationListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/EventConstants.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/ComponentDefinitionException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/NullMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/BeanMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/BeanArgument.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/MapEntry.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/ServiceMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/NoSuchComponentException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/Converter.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/CollectionMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/ReifiedType.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/ServiceReferenceMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/BeanProperty.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/IdRefMetadata.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/container/BlueprintContainer.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/ValueMetadata.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/log/LogService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/log/LogEntry.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/device/Device.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/device/Constants.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/device/Driver.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/http/HttpContext.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/http/HttpService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/log/LogReaderService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/log/LogListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/http/HttpContext.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi/util/gsm/IMSICondition.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/application/ApplicationDescriptor.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/cm/ConfigurationPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/cm/ConfigurationEvent.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/application/ApplicationAdminPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/util/gsm/IMEICondition.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/component/ComponentContext.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/util/cdma/MEIDCondition.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/event/EventAdmin.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/deploymentadmin/DeploymentException.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
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/**
* This interface is used to manage a database of named <code>Role</code> objects,
* which can be used for authentication and authorization purposes.
*
* <p>
* This version of the User Admin service defines two types of <code>Role</code> objects: "User" and "Group". Each type of role is represented by an
* <code>int</code> constant and an interface. The range of positive integers is
* reserved for new types of roles that may be added in the future. When
* defining proprietary role types, negative constant values must be used.
* 
* <p>
* Every role has a name and a type.
* 
* A `User` object can be configured with credentials (e.g., a password)
* and properties (e.g., a street address, phone number, etc.).
* 
* A `Group` object represents an aggregation of `User` and
* `Group` objects. In other words, the members of a `Group` object
* are roles themselves.
* 
* Every User Admin service manages and maintains its own namespace of
* `Role` objects, in which each `Role` object has a unique
* name.
* 
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  jar/org/osgi/service/cm/ConfigurationException.java
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  jar/org/osgi/service/device/Match.java
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  jar/org/osgi/service/useradmin/Group.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
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@returns the list of extension property keys, if the provider of this
MetaNode provides proprietary extensions to node meta
data. The method returns null if the node doesn't provide
such extensions.

@returns the array of supported extension property keys

@returns the value for the specified extension property key. This method
only works if the provider of this MetaNode provides
proprietary extensions to node meta data.

@param key the key for the extension property
@returns the value of the requested property, cannot be null
@throws IllegalArgumentException if the specified key is not supported by
this MetaNode

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/util/tracker/BundleTrackerCustomizer.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/util/tracker/BundleTracker.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/util/tracker/AbstractTracked.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/info/dmtree/notification/AlertItem.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/monitor/Monitorable.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/application/ApplicationHandle.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/component/ComponentInstance.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/info/dmtree/spi/TransactionalDataSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/component/ComponentException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/info/dmtree/DmtEventListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
jar/info/dmtree/DmtException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/DmtAdmin.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/monitor/MonitorListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/spi/ReadWriteDataSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/spi/ExecPlugin.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/notification/NotificationService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/security/DmtPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/DmtEvent.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/DmtSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/DmtSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/Uri.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/spi/ReadableDataSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/notification/spi/RemoteAlertSender.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/monitor/StatusVariable.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/registry/DmtServiceFactory.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/monitor/MonitoringJob.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/spi/DataPlugin.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/component/ComponentFactory.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/DmtData.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/cm/ConfigurationListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/application/ScheduledApplication.java

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  jar/org/osgi/service/event/TopicPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/event/Event.java
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  jar/org/osgi/service/upnp/UPnPLocalStateVariable.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/upnp/UPnPException.java

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* /opt/cola/permits/1158685075_1619822624.06/0/spring-aop-4-1-7-release-sources-1-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
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jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.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.
* <p>Exposes the {@code MBeanServer} for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
* <p>See the javadocs for WebSphere's
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2.jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2.jar/org/springframework/context/annotation/Lifecycle.java
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* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2.jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2.jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
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* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2.jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2.jar/org/springframework/remoting/RemoteAccessException.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2.jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java

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/**
* Indicates that a component is only eligible for registration when all
* [@linkplain #value() specified conditions] match.
* *
* A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see [@link Condition] for details).
* *
* The [@linkplain @Conditional] annotation may be used in any of the following ways:
* *
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* [@linkplain @Component], including [@linkplain @Configuration @Configuration] classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any [@linkplain @Bean @Bean] method</li>
* </ul>
* *
* If a [@linkplain @Configuration] class is marked with [@linkplain @Conditional], all of the
* [@linkplain @Bean] methods, [@linkplain @Import @Import] and [@linkplain @ComponentScan @ComponentScan]
* annotations associated with that class will be subject to the conditions.
* *
* NOTE: [@linkplain @Conditional] annotations are not inherited; any conditions from
* superclasses or from overridden methods are not being considered.

* @author Phillip Webb
* @since 4.0
* @see Condition
*/

Found in path(s):
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-jar/org/springframework/context/annotation/Conditional.java
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  jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/stereotype/Controller.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/stereotype/Component.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
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  jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/classloading/WeavingTransformer.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java

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  jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/jndi/JndiLocatorSupport.java
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  jar/org/springframework/validation/ValidationUtils.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4-1-7-release-sources-2-
  jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java
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* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4.1.7-release-sources-2-
  jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4.1.7-release-sources-2-
  jar/org/springframework/context/annotation/AdviceMode.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4.1.7-release-sources-2-
  jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4.1.7-release-sources-2-
  jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1158685645_1619822606.07/0/spring-context-4.1.7-release-sources-2-
  jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
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  jar/org/springframework/cache/support/SimpleCacheManager.java
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  jar/org/springframework/context/ApplicationEventPublisherAware.java
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  jar/org/springframework/context/EmbeddedValueResolverAware.java
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  jar/org/springframework/stereotype/Repository.java
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  jar/org/springframework/context/annotation/BeanAnnotationHelper.java
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1.294 decorator 3.4.0

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    Found in path(s):
    * /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.py
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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
Get the __version__ reading the file: works both in Python 2.X and 3.X, whereas direct importing would break in Python 3.X with a syntax error

for line in open(fname):
    if line.startswith('__version__ '):
        return eval(line[13:])
raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='BSD License',
          package_dir = {'': 'src'},
          py_modules = ['decorator'],
          keywords='decorators generic utility',
          platforms=['All'],
          classifiers=['Development Status :: 5 - Production/Stable',
                      'Intended Audience :: Developers',
                      'License :: OSI Approved :: BSD License',
                      'Natural Language :: English',
                      'Operating System :: OS Independent',
                      'Programming Language :: Python',
                      'Programming Language :: Python :: 3',
                      'Topic :: Software Development :: Libraries',
                      'Topic :: Utilities'],
          use_2to3=True,
          zip_safe=False)

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/setup.py
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Decorator module

Authorization: Michele Simionato
E-mail: michele.simionato@gmail.com
Requires: Python 2.4+
Download page: http://pypi.python.org/pypi/decorator
Installation: `easy_install decorator`
Installation

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that
Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including
the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some
inner details such as the introduction of the ArgSpec namedtuple and
Thread.__repr__. changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using
the with statement, but the decorator module is expected to work
anyway (it has been used in production with Python 2.4 for years). My
plan is to keep supporting all Python versions >= 2.4 in the core
module, but I will keep the documentation and the tests updated only
for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there
is an older version of the decorator module; in such a case remove the
old version.
Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`
- `PDF version (Python 2)`
- `HTML version (Python 3)`
- `PDF version (Python 3)`


Repository
------------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt

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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

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

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: ``easy_install decorator``
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If you are lazy, just perform

$ easy_install decorator

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in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

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Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

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http://code.google.com/p/micheles/source/browse/#hg/2Fdecorator

Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Utilities

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1.305 utility-library 1.7+r608262

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From dso/aix/dso.c:

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

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

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* cvt - IEEE floating point formatting routines.
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1.306 dosfs-tools 3.0.20-9.el7

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@subheading END OF TERMS AND CONDITIONS

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@subheading How to Apply These Terms to Your New Libraries

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```
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```
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```

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Ty Coon, President of Vice
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<one line to give the program's name and a brief idea of what it does.>
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1.315 cxf-tools-common 2.5.9
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1.316 jsch 0.1.51
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1.317 polkit 0.112-5.el7
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/WstxInputLocation.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/stax/WstxEventFactory.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/evt/DefaultEventAllocator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/AsciiReader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/EBCDICCodec.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/UTF8Reader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/UTF32Reader.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DFAValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/StructValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DFASTate.java

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  jar/com/ctc/wstx/sw/OutputElementBase.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
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  jar/com/ctc/wstx/msv/RelaxNGSchema.java

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  jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
  jar/com/ctc/wstx/sw/BaseNsStreamWriter.java

1.326 iprutils 2.4.17.1-3.el7_7
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* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2-jar/org/springframework/transaction/PlatformTransactionManager.java
* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2-jar/org/springframework/transaction/annotation/Propagation.java
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* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2.jar/org/springframework/transaction/support/ResourceHolder.java
* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2.jar/org/springframework/jca/cci/core/CciOperations.java

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* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2.jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2.jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2.jar/org/springframework/transaction/support/TransactionSynchronization.java

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/ *
*/

Found in path(s):
* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /opt/cola/permits/1158685050_1619822128.26/0/spring-tx-3-2-10-release-sources-2-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java

1.328 util-linux 2.23.2-26.el7

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
---------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
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<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end   size   fstype [fsi bsize cpg]
c: 4096   20479 16384   unused 0 0

d: 0   16064 16065   unused 0 0

BSD disklabel command (m for help):
Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end   size   fstype [fsi bsize cpg]
a: 4096   6144 2049   4.2BSD 0 0 0

c: 4096   20479 16384   unused 0 0

d: 0   16064 16065   unused 0 0
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

1.329 freemarker 2.3.23

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1.330 libevdev 1.4.1-1.el7

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Found in path(s):
    * /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/ASMifiable.java
    * /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/Traceable.java
No license file was found, but licenses were detected in source scan.

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1.333 wsdl4j 1.6.2
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1.335 cglib 2.1_3

1.336 mule-module-sxc 3.6.1

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- /opt/ws_local/PERMITS_SQL/1025582830_1594422706.23/0/mule-module-sxc-3-6-1-sources-jar/org/mule/module/sxc/SxcFilteringOutboundRouter.java
- /opt/ws_local/PERMITS_SQL/1025582830_1594422706.23/0/mule-module-sxc-3-6-1-sources-jar/org/mule/module/sxc/SxcFilter.java
- /opt/ws_local/PERMITS_SQL/1025582830_1594422706.23/0/mule-module-sxc-3-6-1-sources-jar/org/mule/module/sxc/SxcNamespaceHandler.java
- /opt/ws_local/PERMITS_SQL/1025582830_1594422706.23/0/mule-module-sxc-3-6-1-sources-jar/org/mule/module/sxc/StopProcessingException.java
- /opt/ws_local/PERMITS_SQL/1025582830_1594422706.23/0/mule-module-sxc-3-6-1-sources-jar/org/mule/module/sxc/FilterEventHandler.java

1.337 postgresql 9.2-1002-jdbc4

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/**
* This adds a function to our lookup table.
* 
* <p>User code should use the addFunctions method, which is based upon a
* query, rather than hard coding the oid. The oid for a function is not
* guaranteed to remain static, even on different servers of the same
* version.
* 
* @param name Function name
* @param fnid Function id
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1017272376_1591856022.29/0/postgresql-9-2-1002-jdbc4-sources-
jar/org/postgresql/fastpath/Fastpath.java

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/**
* This code is a stripped down version of Robert Harder's Public Domain
* Base64 implementation. GZIP support, InputStream and OutputStream stuff
* and some unneeded encode/decode methods have been removed.
* 
* -- Original comments follow --
* 
* Encodes and decodes to and from Base64 notation.
* 
* <p>
* Change Log:
* </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.</li>
* v1.4 - Added helper methods to read/write files.</li>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.</li>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

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  * plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.
* </p>

* @author Robert Harder
* @author rob@iharder.net
* @version 2.1
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1017272376_1591856022.29/0/postgresql-9-2-1002-jdbc4-sources-jar/org/postgresql/util/Base64.java

1.338 restlet 1.0.7 (build 15)

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1.339 client-lib 1.19.0

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  jar/com/google/api/client/json/jackson/JacksonParser.java
* /opt/ws_local/PERMITS_SQL/1003537309_1594457022.79/0/google-http-client-jackson-1-19-0-sources-1-
  jar/com/google/api/client/json/jackson/JacksonFactory.java
* /opt/ws_local/PERMITS_SQL/1003537309_1594457022.79/0/google-http-client-jackson-1-19-0-sources-1-
  jar/com/google/api/client/json/jackson/JacksonGenerator.java
* /opt/ws_local/PERMITS_SQL/1003537309_1594457022.79/0/google-http-client-jackson-1-19-0-sources-1-
  jar/com/google/api/client/json/jackson/package-info.java

1.340 jexcel-api 2.6.12

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1.341 apacheds-core-shared 1.5.1

1.342 mina 1.1.2

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1.343 libpng 1.5.13-5.el7

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*/
/**
* <!-- start generic documentation -->
*
* The interface used to execute SQL stored procedures. The JDBC API
* provides a stored procedure SQL escape syntax that allows stored
* procedures to be called in a standard way for all RDBMSs. This escape
* syntax has one form that includes a result parameter and one that does
* not. If used, the result parameter must be registered as an OUT parameter.
* The other parameters can be used for input, output or both. Parameters
* are referred to sequentially, by number, with the first parameter being 1.
* <PRE>
* {?= call &lt;procedure-name&gt;[&lt;arg1&gt;,&lt;arg2&gt;,...]} 
* {call &lt;procedure-name&gt;[&lt;arg1&gt;,&lt;arg2&gt;,...]}
* </PRE>
* <P>
* IN parameter values are set using the <code>set</code> methods inherited from
* [link PreparedStatement]. The type of all OUT parameters must be
* registered prior to executing the stored procedure; their values
* are retrieved after execution via the <code>get</code> methods provided here.
* <P>
* A <code>CallableStatement</code> can return one [link ResultSet] object or
* multiple <code>ResultSet</code> objects. Multiple
* <code>ResultSet</code> objects are handled using operations
* inherited from [link Statement].
* <P>
* For maximum portability, a call's <code>ResultSet</code> objects and
* update counts should be processed prior to getting the values of output
* parameters.
* <P>
* <!-- end generic documentation -->
* <!-- start Release-specific documentation -->
* <div class="ReleaseSpecificDocumentation">
* <h3>HSQLDB-Specific Information:</h3> 
* Since 1.7.2, the JDBC CallableStatement interface implementation has been
* broken out of the jdbcPreparedStatement class into this one. <p>
*
With 1.7.2, some of the previously unsupported features of this interface are now supported, such as the parameterName-based setter methods. <p>

More importantly, jdbcCallableStatement objects are now backed by a true compiled parameteric representation. Hence, there are now significant performance gains to be had by using a CallableStatement object instead of a Statement object, if a short-running CALL statement is to be executed more than a small number of times. Moreover, the recent work lays the foundation for work in a subsequent release to support CallableStatement OUT and IN OUT style parameters, as well as the generation and retrieval of multiple results in response to the execution of a CallableStatement object. <p>

For a more in-depth discussion of performance issues regarding 1.7.2 prepared and callable statement objects, please see overview section of [{@link jdbcPreparedStatement jdbcPreparedStatment}].

As with many DBMS, HSQLDB support for stored procedures is not provided in a completely standard fashion. <p>

Beyond the XOpen/ODBC extended scalar functions, stored procedures are typically supported in ways that vary greatly from one DBMS implementation to the next. So, it is almost guaranteed that the code for a stored procedure written under a specific DBMS product will not work without at least some modification in the context of another vendor's product or even across a single vendor's product lines. Moving stored procedures from one DBMS product line to another almost invariably involves complex porting issues and often may not be possible at all. <em>Be warned</em>. <p>

At present, HSQLDB stored procedures map directly onto the methods of compiled Java classes found on the classpath of the engine at runtime. This is done in a non-standard but fairly efficient way by issuing a class grant (and possibly method aliases) of the form: <p>

<PRE class="SqlCodeExample">
GRANT ALL ON CLASS &quot;package.class&quot; TO [&lt;user-name&gt; | PUBLIC] CREATE ALIAS &lt;call-alias&gt; FOR &quot;package.class.method&quot; -- optional
</PRE>

This has the effect of allowing the specified user(s) to access the set of uniquely named public static methods of the specified class, in either the role of SQL functions or stored procedures.

For example: <p>

<PRE class="SqlCodeExample">
CONNECT &lt;admin-user&gt; PASSWORD &lt;admin-user-password&gt;;
</PRE>
* GRANT ALL ON CLASS "org.myorg.MyClass" TO PUBLIC;
* CREATE ALIAS sp_my_method FOR "org.myorg.MyClass.myMethod";
* CONNECT &lt;any-user&gt; PASSWORD &lt;any-user-password&gt;;
* SELECT &quot;org.myorg.MyClass.myMethod&quot;(column_1) FROM table_1;
* SELECT sp_my_method(column_1) FROM table_1;
* CALL 2 + &quot;org.myorg.MyClass.myMethod&quot;(-5);
* CALL 2 + sp_my_method(-5);
* </PRE>

* Please note the use of the term "uniquely named" above. Including 1.7.2, no support is provided to deterministically resolve overloaded method names, and there can be issues with inherited methods as well; currently, it is strongly recommended that developers creating stored procedure library classes for HSQLDB simply avoid designs such that SQL stored procedure calls attempt to resolve to: <p>

* * *<ol><li>inherited public static methods</li><li>overloaded public static methods</li></ol>*

* Also, please note that &lt;code&gt;OUT&lt;/code&gt; and &lt;code&gt;IN OUT&lt;/code&gt; parameters are not yet supported due to some unresolved low level support issues. &lt;p&gt;*

* Including 1.7.2, the HSQLDB stored procedure call mechanism is essentially a thin wrap of the HSQLDB SQL function call mechanism, extended to include the more general HSQLDB SQL expression evaluation mechanism. In addition to stored procedure calls that resolve directly to Java method invocations, the extension provides the ability to evaluate simple SQL expressions, possibly containing Java method invocations, outside any &lt;code&gt;INSERT&lt;/code&gt;, &lt;code&gt;UPDATE&lt;/code&gt;, &lt;code&gt;DELETE&lt;/code&gt; or &lt;code&gt;SELECT&lt;/code&gt; statement context. &lt;p&gt;*

* With HSQLDB, executing a &lt;code&gt;CALL&lt;/code&gt; statement that produces an opaque (OTHER) or known scalar object reference has virtually the same effect as:

* &lt;PRE class="SqlCodeExample"&gt;
* CREATE TABLE DUAL (dummy VARCHAR);
* INSERT INTO DUAL VALUES(NULL);
* SELECT &lt;simple-expression&gt; FROM DUAL;
* &lt;/PRE&gt;

* As a transitional measure, HSQLDB provides the ability to materialize a general result set in response to stored procedure execution. In this case, the stored procedure's Java method descriptor must specify a return type of java.lang.Object for external use (although at any point in the development cycle, other, proprietary return types may accepted internally for engine development purposes).
When HSQLDB detects that the runtime class of the resulting Object is eligible, an automatic internal unwrapping is performed to correctly expose the underlying result set to the client, whether local or remote. 

Additionally, HSQLDB automatically detects if java.sql.Connection is the class of the first argument of any underlying Java method(s). If so, then the engine transparently supplies the internal Connection object corresponding to the Session executing the call, adjusting the positions of other arguments to suite the SQL context.

The features above are not intended to be permanent. Rather, the intention is to offer more general and powerful mechanisms in a future release; it is recommend to use them only as a temporary convenience.

For instance, one might be well advised to future-proof by writing HSQLDB-specific adapter methods that in turn call the real logic of an underlying generalized JDBC stored procedure library.

Here is a very simple example of an HSQLDB stored procedure generating a user-defined result set:

```java
package mypackage;

class MyClass {

  public static Object mySp(Connection conn) throws SQLException {
          return conn.createStatement().executeQuery("select * from my_table");
  }
}
```

Here is a refinement demonstrating no more than the bare essence of the idea behind a more portable style:

```java
package mypackage;

import java.sql.ResultSet;
import java.sql.SQLException;

class MyLibraryClass {

  public static ResultSet mySp() throws SQLException {
          return conn.createStatement().createQuery("select * from my_table");
  }
}
```
In a future release, it is intended to provide some new features
that will support writing fairly portable JDBC-based stored procedure

code: `<p>

- Support for the `jdbc:default:connection` standard database connection url. `<p>
- A well-defined specification of the behaviour of the HSQLDB execution stack under stored procedure calls. `<p>
- A well-defined, pure JDBC specification for generating multiple results from HSQLDB stored procedures for client retrieval.

(boucherb@users)
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 */
/**
 * <!-- start generic documentation -->
 * Indicates whether the designated column is automatically numbered,
 * thus read-only. <p>
 * <!-- end generic documentation -->
 *
 * <!-- start Release-specific documentation -->
 *
 * <!-- start Release-specific documentation -->
 * <div class="ReleaseSpecificDocumentation">
 * <h3>HSQLDB-Specific Information:</h3> <p>
 * HSQLDB 1.7.1 did not report this value accurately,
 * either always throwing or always returning false, depending
 * upon client property values.<p>
 */
Starting with HSQLDB 1.7.2, this feature is better supported. <p>

However, it must be stated here that, contrary to the generic
documentation above, HSQLDB automatically numbered columns
(IDENTITY columns, in HSQLDB parlance) are not read-only. <p>

In fact, the generic documentation above seems to contradict the general
definition of what, at minimum, an auto-increment column is: <p>

Simply, an auto-increment column is one that guarantees it has a
unique value after a successful insert or update operation, even if
no value is supplied or NULL is explicitly specified by the application
or a default value expression. <p>

Further, without SQL Feature T176, Sequence generator support, the
attributes of the internal source consulted for unique values are not
defined. That is, unlike for a standard SQL SEQUENCE object or a system
with full SQL 9x or 200n support for SQL Feature T174, Identity columns,
an application must not assume and cannot determine in a standard way
that auto-increment values start at any particular point, increment by
any particular value or have any of the other attributes generally
associated with SQL SEQUENCE generators. Further still, without full
support for both feature T174 and T176, if a unique value is supplied
by an application or provided by a declared or implicit default value
expression, then whether that value is used or substituted with one
from the automatic unique value source is implementation-defined
and cannot be known in a standard way. Finally, without full support
for features T174 and T176, it is also implementation-defined and
cannot be know in a standard way whether an exception is thrown or
a unique value is automatically substituted when an application or
default value expression supplies a non-NULL,
non-unique value. <p>

Up to and including HSQLDB 1.7.2, values supplied by an application or
default value expression are used if they are indeed non-NULL unique
values, while an exception is thrown if either possible value source
for the site attempts to supply a non-NULL, non-unique value. This is
very likely to remain the behaviour of HSQLDB for its foreseeable
lifetime and at the very least for the duration of the 1.7.x release
series.<p>

Regardless of the new and better support for reporting
isAutoIncrement(), it is still possible under certain conditions that
* accurate reporting may be impossible. For example, if this object's
* parent Connection is closed before the first call to this method or to
* any other method of this class that initializes the connection-dependent
* ResultSetMetaData values, then it is impossible to report accurately for
* result set columns that directly represent table column values. <p>
* Under such special circumstances, the driver rethrows the exception that
* occurred during the initialization, or a SQLException wrapping it. <p>
* Those wishing to determine the auto-increment status of a table column
* in isolation from ResultSetMetaData can do so by inspecting the
* corresponding value of the SYSTEM_COLUMNS.IS_IDENTITY BOOLEAN column which
* is also currently included (in a fashion proprietary to HSQLDB) as the
* last column of the jdbcDatabaseMetaData.getColumns() result.
* <code>}</code>
* @param column the first column is 1, the second is 2, ...
* @return <code>true</code> if so; <code>false</code> otherwise
* @exception SQLException if a database access error occurs
 */

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*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-
jar/org/hsqldb/jdbc/jdbcResultSetMetaData.java
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* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* Retrives whether auto-generated keys can be retrieved after
* a statement has been executed. <p>
* <div class="ReleaseSpecificDocumentation">
* HSQLDB-Specific Information:<h3> Up to and including 1.7.2, HSQLDB does not support retrieving
* autogenerated keys through the JDBC interface at all, although
* it is possible to retrieve them in a proprietary fashion;
* this method always returns <code>false</code>. <p>
* </div>
* @return <code>true</code> if auto-generated keys can be retrieved
* after a statement has executed; <code>false</code> otherwise
* @exception SQLException if a database access error occurs
* @since JDK 1.4, HSQLDB 1.7
*/

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* /opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-
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*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/SubQuery.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/Grantee.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/store/ObjectCacheHashMap.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/TestObjectSize.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/lib/StringUtil.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/TestSubQueriesInPreparedStatements.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/rowio/RowInputBase.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/lib/BaseList.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/lib/HsqlTimer.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/util/ZaurusEditor.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/lib/ThreadFactory.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/dbc/jdbcColumnMetaData.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/TestBatchExecution.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/TestBug808460.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/lib/ThreadFactory.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/TransactionManager.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/rowio/RowInputBase.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/HTTPClientConnection.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/util/ZaurusConnectionDialog.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/lib/View.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/rowio/RowInputTextQuoted.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/lib/Grantee.java
*/opt/cola/permits/1144651589_1623731367.84/0/hsqldb/lib/LongKeyIntValueHashMap.java
* /opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/TestBase.java
* /opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/ScriptWriterBinary.java
* /opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/TestSqlTool.java
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* /opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/test/TestINPredicateParameterizationAndCorrelation.java

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* /opt/cola/permits/1144651589_1623731367.84/0/hsqldb-1-8-0-1-sources-1-jar/org/hsqldb/DatabaseScript.java
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1.351 aop-alliance 1.0.0

1.352 jaudiotagger 2.0.3

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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrapperSqlRowSet.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java

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/**
 * Strategy interface for translating between [@link SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [@link DataAccessException]
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * [@link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
  jar/org/springframework/jdbc/support/SQLExceptionTranslator.java

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    jar/org/springframework/jdbc/core/StatementCallback.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/core/PreparedStatementCallback.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/object/GenericSqlQuery.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/support/SQLErrorCodes.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/datasource/ConnectionHandle.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/core/ConnectionCallback.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/datasource/ConnectionHolder.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
  * /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-
    jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java

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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/EmbeddedDatabase.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/core/SqLRowSetResultSetExtractor.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/SqlResultSetExtractor.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/EmbeddedDatabase.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcpNativeJdbcExtractor.java

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/**
 ** Abstraction for handling large binary fields and large text fields in
 ** specific databases, no matter if represented as simple types or Large OBjects.
 ** Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
 ** [$link OracleLobHandler]; most other databases should be able to work
 ** with the provided [$link DefaultLobHandler].
 *
 ** <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
 ** LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
 ** LobCreators are typically instantiated for each statement execution or for
 ** each transaction; they are not thread-safe because they might track
 ** allocated database resources in order to free them after execution.
 **
 ** <p>Most databases/drivers should be able to work with [$link DefaultLobHandler],
 ** which by default delegates to JDBC's direct accessor methods, avoiding the
 ** [$link DefaultLobHandler] can also be configured to access LOBs using
 ** [$code PreparedStatement.setBlob/setClob] (e.g. for PostgreSQL), through
 ** setting the [$link DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.
 **
 ** <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
 ** proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
 ** PreparedStatement's corresponding setter methods. Therefore, you need to use
 ** [$link OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types
 ** of access. The Oracle 10g+ JDBC driver will work with [$link DefaultLobHandler]
 ** as well, with some limitations in terms of LOB sizes depending on DBMS setup;
 */
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
* there should be no need to use [@link OracleLobHandler] at all anymore.

* Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete portability, use a LobHandler for fields that might typically require LOBs on some database because of the field size (take Oracle's numbers as a guideline).

* Summarizing the recommended options (for actual LOB fields):
  * JDBC 4.0 driver (including Oracle 11g driver): Use [@link DefaultLobHandler], potentially with [@code streamAsLob=true] if your database driver requires that hint when populating a LOB field. Fall back to [@code createTemporaryLob=true] if you happen to run into LOB size limitations with your (Oracle) database setup.
  * Oracle 10g driver: Use [@link DefaultLobHandler] with standard setup.
  * On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2, DefaultLobHandler should work with standard setup out of the box. Alternatively, consider using the proprietary [@link OracleLobHandler] (see below).
  * Oracle 9i driver: Use [@link OracleLobHandler] with a connection-pool-specific [@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor].
  * PostgreSQL: Configure [@link DefaultLobHandler] with [@code wrapAsLob=true], and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
  * For all other database drivers (and for non-LOB fields that might potentially turn into LOBs on some databases): Simply use a plain [@link DefaultLobHandler].

* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/core/SqlInOutParameter.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/support/JdbcAccessor.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java

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* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /opt/cola/permits/1135840180_1613612957.26/0/spring-jdbc-4-3-29-release-sources-1.jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
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/**
   * Implement this interface when parameters need to be customized based
   * on the connection. We might need to do this to make use of proprietary
   * features, available only with a specific Connection type.
   *
   * @author Rod Johnson
   * @author Thomas Risberg
   *
   */

/**
   * Create a Map of input parameters, keyed by name.
   * @param con JDBC connection. This is useful (and the purpose of this interface)
   * if we need to do something RDBMS-specific with a proprietary Connection
   * implementation class. This class conceals such proprietary details. However,
   * it is best to avoid using such proprietary RDBMS features if possible.
   * @throws SQLException if a SQLException is encountered setting
   * parameter values (that is, there's no need to catch SQLException)
   * @return Map of input parameters, keyed by name (never { @code null})
   */

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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 * <p>This package and related packages are discussed in Chapter 9 of
 * by Rod Johnson (Wrox, 2002).
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/**
 * {@link LobHandler} implementation for Oracle databases. Uses proprietary API
 * to create {@code oracle.sql.BLOB} and {@code oracle.sql.CLOB} instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * <p>While most databases are able to work with {@link DefaultLobHandler},
 * Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
 * Blob/Clob instances created via its own proprietary BLOB/CLOB API,
 * and additionally doesn't accept large streams for PreparedStatement's
 * corresponding setter methods. Therefore, you need to use a strategy like
 * this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
 * (which still supports access to Oracle 9i databases).
 *
 * <p>&lt;b&gt;NOTE: As of Oracle 10.2, [@link DefaultLobHandler] should work equally
 * well out of the box. On Oracle 11g, JDBC 4.0 based options such as
 * [@link DefaultLobHandler#setStreamAsLob] and [@link DefaultLobHandler#setCreateTemporaryLob]
* are available as well, rendering this proprietary OracleLobHandler obsolete.</b>
* Also, consider upgrading to a new driver even when accessing an older database.
* See the { @link LobHandler} interface javadoc for a summary of recommendations.
*
* <p>Needs to work on a native JDBC Connection, to be able to cast it to
* { @code oracle.jdbc.OracleConnection}. If you pass in Connections from a
* connection pool (the usual case in a Java EE environment), you need to set an
* appropriate { @link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
*
* <p>Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
*
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of { @link DefaultLobHandler} for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* { @link DefaultLobHandler#setCreateTemporaryLob} is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

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* /opt/ws_local/PERMITS_SQL/1025582738_1594426104.73/0/mx4j-2-1-1-sources-jar/mx4j/server/interceptor/SecurityMBeanServerInterceptorMBeanDescription.java
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* /opt/ws_local/PERMITS_SQL/1025582738_1594426104.73/0/mx4j-2-1-1-sources-jar/mx4j/server/interceptor/DefaultMBeanServerInterceptorMBeanDescription.java
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* /opt/ws_local/PERMITS_SQL/1025582738_1594426104.73/0/mx4j-2-1-1-sources-jar/mx4j/server/MBeanMetaData.java
* /opt/ws_local/PERMITS_SQL/1025582738_1594426104.73/0/mx4j-2-1-1-sources-jar/mx4j/server/interceptor/MLetParseException.java
* /opt/ws_local/PERMITS_SQL/1025582738_1594426104.73/0/mx4j-2-1-1-sources-jar/mx4j/server/interceptor/MLetParseException.java
* /opt/ws_local/PERMITS_SQL/1025582738_1594426104.73/0/mx4j-2-1-1-sources-jar/mx4j/server/interceptor/DefaultMBeanServerInterceptor.java

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* descriptor is found for a given variable, the template logic uses its default
* variable property initialized using the default [ @link Variable] constructor.
*
* <table>
* <tr>
* <th>Model property</th>
* <th>Variable name</th>
* <th>Content type</th>
* </tr>
* <tr>
* <td>request.confidential</td>
* <td>c</td>
* <td>boolean (true|false)</td>
* </tr>
* <tr>
* <td>request.clientInfo.address</td>
* <td>cia</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.clientInfo.agent</td>
* <td></td>
* </tr>
* </table>
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<th>Field</th>
<th>Value</th>
<th>Type</th>
</tr>
</thead>
<tbody>
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<td>cri</td>
<td>String</td>
</tr>
<tr>
<td>request.challengeResponse.scheme</td>
<td>crs</td>
<td>String</td>
</tr>
<tr>
<td>request.entity.characterSet</td>
<td>ecs</td>
<td>String</td>
</tr>
<tr>
<td>request.entity.encoding</td>
<td>ee</td>
<td>String</td>
</tr>
<tr>
<td>request.entity.expirationDate</td>
<td>eed</td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>response.entity.characterSet</td>
<td>ECS</td>
<td>String</td>
</tr>
<tr>
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<td>String</td>
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<tr>
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<td>Date (HTTP format)</td>
</tr>
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<td>String</td>
</tr>
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<td>EL</td>
<td>String</td>
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<td>Date (HTTP format)</td>
</tr>
<tr>
<td>response.entity.modificationDate</td>
<td>EMD</td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>request.entity.mediaType</td>
<td>emt</td>
<td>String</td>
</tr>
<tr>
<td>response.entity.mediaType</td>
<td>EMT</td>
<td>String</td>
</tr>
<tr>
<td>request.entity.size</td>
<td>es</td>
<td>Integer</td>
</tr>
<tr>
<td>response.entity.size</td>
<td>ES</td>
<td>Integer</td>
</tr>
<tr>
<td>request.entity.tag</td>
<td>et</td>
<td>String</td>
</tr>
<tr>
<td>response.entity.tag</td>
<td>ET</td>
<td>String</td>
</tr>
<tr>
<td>request.referrerRef</td>
<td>f*</td>
<td></td>
</tr>
<tr>
<td>Variable Name</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>request.hostRef</td>
<td>Reference (see table below variable name sub-parts)</td>
<td></td>
</tr>
<tr>
<td>request.method</td>
<td>m</td>
<td>String</td>
</tr>
<tr>
<td>request.rootRef</td>
<td>o*</td>
<td>Reference (see table below variable name sub-parts)</td>
</tr>
<tr>
<td>request.protocol</td>
<td>p</td>
<td>String</td>
</tr>
<tr>
<td>request.resourceRef</td>
<td>r*</td>
<td>Reference (see table below variable name sub-parts)</td>
</tr>
<tr>
<td>response.redirectRef</td>
<td>R*</td>
<td>Reference (see table below variable name sub-parts)</td>
</tr>
<tr>
<td>response.status</td>
<td>S</td>
<td>Integer</td>
</tr>
<tr>
<td>response.serverInfo.address</td>
<td>SIA</td>
<td>String</td>
</tr>
<tr>
<td>response.serverInfo.agent</td>
<td>SIG</td>
<td>String</td>
</tr>
</tbody>
</table>
* `<td>`response.serverInfo.port`*/td>
* `<td>`SIP`*/td>
* `<td>`Integer`*/td>
* `<tr>`
* `</table>` `<br/>
*

* Below is the list of name sub-parts, for Reference variables, that can
* replace the asterix in the variable names above:`<br/>`<br/>
*`
* `<table>`
* `<tr>`
* `<th>`Reference property`*/th>
* `<th>`Sub-part name`*/th>
* `<th>`Content type`*/th>
* `<tr>`
* `<td>`authority`*/td>
* `<td>`a`*/td>
* `<td>`String`*/td>
* `<tr>`
* `<td>`baseRef`*/td>
* `<td>`b*`*/td>
* `<td>`Reference`*/td>
* `<tr>`
* `<td>`relativePart`*/td>
* `<td>`e`*/td>
* `<td>`String`*/td>
* `<tr>`
* `<td>`fragment`*/td>
* `<td>`f`*/td>
* `<td>`String`*/td>
* `<tr>`
* `<td>`hostIdentifier`*/td>
* `<td>`h`*/td>
* `<td>`String`*/td>
* `<tr>`
* `<td>`identifier`*/td>
* `<td>`i`*/td>
* `<td>`String`*/td>
* `<tr>`
* `<td>`path`*/td>
* `<td>`p`*/td>`
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 */
/**
 * XML writer doing the opposite work of a SAX-based XML reader. The
 * implementation is based on the work of David Megginson, the creator of SAX
 * who placed the original code in the public domain.
 *
 * This class can be used by itself or as part of a SAX event stream: it takes
 * as input a series of SAX2 ContentHandler events and uses the information in
* those events to write an XML document. Since this class is a filter, it can
* also pass the events on down a filter chain for further processing (you can
* use the XmlWriter to take a snapshot of the current state at any point in a
* filter chain), and it can be used directly as a ContentHandler for a SAX2
* XMLReader.
*  
* <p>
* 
* <pre>
* w.startElement("foo");
* </pre>
* 
* <p>
* is equivalent to the regular SAX2 ContentHandler method
* </p>
* 
* <pre>
* w.startElement("","foo","",new AttributesImpl());
* </pre>
* 
* <p>
* Except that it is more efficient because it does not allocate a new empty
* attribute list each time. The following code will send a simple XML document
* to standard output:
*  
* <pre>
* XmlWriter w = new XmlWriter();
* 
* w.startDocument();
* w.startElement("greeting");
* w.characters("Hello, world!");
* w.endElement("greeting");
* w.endDocument();
* </pre>
* 
* <p>
* The resulting document will look like this:
*  
* <p>
In fact, there is an even simpler convenience method, `dataElement()`, designed for writing elements that contain only character data, so the code to generate the document could be shortened to

```xml
XmlWriter w = new XmlWriter();

w.startDocument();
w.dataElement("greeting", "Hello, world!");
w.endDocument();
```

**Whitespace**

According to the XML Recommendation, all whitespace in an XML document is potentially significant to an application, so this class never adds newlines or indentation. If you insert three elements in a row, as in

```xml
w.dataElement("item", "1");
w.dataElement("item", "2");
w.dataElement("item", "3");
```

you will end up with

```xml
  <item>1</item><item>3</item><item>3</item>
```

You need to invoke one of the `characters()` methods explicitly to add newlines or indentation. Alternatively, you can use the data format mode (set the "dataFormat" property) which is optimized for writing purely data-oriented (or field-oriented) XML, and does automatic linebreaks and indentation (but does not support mixed content properly). See details below.
The writer contains extensive support for XML Namespaces, so that a client application does not have to keep track of prefixes and supply `<var>xmlns</var>` attributes. By default, the XML writer will generate Namespace declarations in the form _NS1, _NS2, etc., wherever they are needed, as in the following example:

```xml
w.startDocument();
w.emptyElement("http://www.foo.com/ns/", "foo");
w.endDocument();
</pre>
```

The resulting document will look like this:

```xml
           <?xml version="1.0" standalone="yes"/>

           <_NS1:foo xmlns:_NS1="http://www.foo.com/ns/"></_NS1:foo>
```

In many cases, document authors will prefer to choose their own prefixes rather than using the (ugly) default names. The XML writer allows two methods for selecting prefixes:

- The qualified name
- The `@link #setPrefix setPrefix` method.

Whenever the XML writer finds a new Namespace URI, it checks to see if a qualified (prefixed) name is also available; if so it attempts to use the name's prefix (as long as the prefix is not already in use for another Namespace URI).

Before writing a document, the client can also pre-map a prefix to a
Namespace URI with the setPrefix method:

```java
w.setPrefix("http://www.foo.com/ns/", "foo");
w.startDocument();
w.emptyElement("http://www.foo.com/ns/", "foo");
w.endDocument();
```

The resulting document will look like this:

```xml
<?xml version="1.0" standalone="yes"/>
<foo:foo xmlns:foo="http://www.foo.com/ns/"/>
```

The default Namespace simply uses an empty string as the prefix:

```java
w.setPrefix("http://www.foo.com/ns/", "");
w.startDocument();
w.emptyElement("http://www.foo.com/ns/", "foo");
w.endDocument();
```

The resulting document will look like this:

```xml
<?xml version="1.0" standalone="yes"/>
<foo xmlns="http://www.foo.com/ns/"/>
```

By default, the XML writer will not declare a Namespace until it is actually used. Sometimes, this approach will create a large number of Namespace declarations, as in the following example:
The "rdf" prefix is declared only once, because the RDF Namespace is used by
the root element and can be inherited by all of its descendants; the "dc"
prefix, on the other hand, is declared three times, because no higher element
uses the Namespace. To solve this problem, you can instruct the XML writer to
predeclare Namespaces on the root element even if they are not used there:

```
w.forceNSDecl(&quot;http://www.purl.org/dc/&quot;);
```

Now, the "dc" prefix will be declared on the root element even though it's
not needed there, and can be inherited by its descendants:

```
  &lt;dc:title&gt;A Dark Night&lt;/dc:title&gt;
  &lt;dc:creator&gt;Jane Smith&lt;/dc:creator&gt;
  &lt;dc:date&gt;2000-09-09&lt;/dc:date&gt;
```

This approach is also useful for declaring Namespace prefixes that be used by
qualified names appearing in attribute values or character data.
This mode, enabled by the "dataFormat" property, pretty-prints field-oriented XML without mixed content. All added indentation and newlines will be passed on down the filter chain (if any).

In general, all whitespace in an XML document is potentially significant, so a general-purpose XML writing tool cannot add newlines or indentation.

There is, however, a large class of XML documents where information is strictly fielded: each element contains either character data or other elements, but not both. For this special case, it is possible for a writing tool to provide automatic indentation and newlines without requiring extra work from the user. Note that this class will likely not yield appropriate results for document-oriented XML like XHTML pages, which mix character data and elements together.

This writer mode will automatically place each start tag on a new line, optionally indented if an indent step is provided (by default, there is no indentation). If an element contains other elements, the end tag will also appear on a new line with leading indentation. Consider, for example, the following code:

```java
XmlWriter w = new XmlWriter();
w.setDataFormat(true);
w.setIndentStep(2);
w.startDocument();
w.startElement("Person");
w.dataElement("name", "Jane Smith");
w.dataElement("date-of-birth", "1965-05-23");
w.dataElement("citizenship", "US");
w.endElement("Person");
w.endDocument();
</pre>
```

This code will produce the following document:

```xml
<xml version="1.0" standalone="yes">
   <Person>
      <name>Jane Smith</name>
      <date-of-birth>1965-05-23</date-of-birth>
      <citizenship>US</citizenship>
   </Person>
</xml>
```
* &lt;Person&gt;
* &lt;name&gt;Jane Smith&lt;/name&gt;
* &lt;date-of-birth&gt;1965-05-23&lt;/date-of-birth&gt;
* &lt;citizenship&gt;US&lt;/citizenship&gt;
* &lt;/Person&gt;
* &lt;/pre&gt;
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.ContentHandler
* @author David Megginson, Jerome Louvel (contact@noelios.com)
*/

Found in path(s):
* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org/restlet/util/XmlWriter.java
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* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org/restlet/util/WrapperResponse.java
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* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org/restlet/Filter.java
* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org/restlet/util/ServerList.java
* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org(restlet/data/Parameter.java
* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-
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* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org/restlet/resource/DomRepresentation.java
* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org/restlet/util/Engine.java
* /opt/cola/permits/1129613193_1612309480.59/0/org-restlet-1-0-7-sources-jar/org/restlet/data/MediaType.java

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 */

/** Indicates if the call came over a confidential channel. */
/**
 * Indicates if the call came over a confidential channel such as an
 * SSL-secured connection.
 *
 * @return True if the call came over a confidential channel.
 */

/**
 * Indicates if the call came over a confidential channel such as an
 * SSL-secured connection.
 *
 * @param confidential
 *    True if the call came over a confidential channel.
1.372 kerberos 1.13.2-10.el7

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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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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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF"
The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000.

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jar/com/github/oxo42/stateless4j/OutVar.java
* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2.5.0-sources-6-
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1.393 antlr 2.7.7

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
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  jar/com/sun/syndication/impl/ConverterForRSS094.java
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 * SUCH DAMAGE.
 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ec9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
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<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d251a8a045db233418dd73f6e bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
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<tr>
<th>Device Boot</th>
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<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afef0443f196a1 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):
4 partitions:
  #  start   end    size    fstype    [fsise bsize  cpg]
c:  4096   20479  16384    unused    0     0
  d:    0   16064  16065    unused    0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
  #  start   end    size    fstype    [fsise bsize  cpg]
a:  4096   6144   2049    4.2BSD    0     0
  c:  4096   20479  16384    unused    0     0
  d:    0   16064  16065    unused    0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
  0  unused    5  4.1BSD   9  4.4LFS    d  boot
  1    swap    6  Eighth Edition  a  unknown  e  ADOS
  2  Version 6    7  4.2BSD    b  HPFS    f  HFS
  3  Version 7    8  MS-DOS    c  ISO-9660   10  AdvFS
  4  System V

BSD disklabel command (m for help):
1.399 ebtables 2.0.10-13.el7

1.399.1 Available under license:

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1.400 libusb 1.0.15-4.el7

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1.409 mule-transport-xmpp 3.6.1

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* /opt/ws_local/PERMITS_SQL/1025582806_1594526180.72/0/mule-transport-xmpp-3-6-1-sources-1-jar/org/mule/transport/xmpp/filters/XmppMessageTypeFilter.java
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1.410 commons-collections 3.2.2

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1.412 mule-module-ognl 3.6.1

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1.413 guava 25.0-jre

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/****************************************************************************
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

Found in path(s):
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/coll/Immuta/bSortedMapFauxverideShim.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/LinkedHashSetMultiset.java
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  jar/com/google/common/collection/SetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/HashMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/SortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/NullsLastOrdering.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/Multisets.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/Maps.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/ForwardingMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/Iterables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/MapDifference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/AbstractBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/ForwardingSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/AbstractListMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/ImmutableList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4
jar/com/google/common/collection/Synchronized.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4

jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/ForwardingIterator.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/AbstractSortedSetMultimap.java
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* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/Multimaps.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/ForwardingObject.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/Multimap.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/Ordering.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/AbstractMapBasedMultiset.java
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* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/ByFunctionOrdering.java
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* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/110675684_1606843710.64/guava-25.0-jre-sources-4.jar/com/google/common/collection/EnumBiMap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/GwtTransient.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/MultimapBuilder.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/IndexedImmutableSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/AbstractScheduledService.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ExecutionError.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Present.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/EmptyContiguousSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/AbstractCompositeHashFunction.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/net/HostAndPort.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/UnsignedInteger.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/RemovalNotification.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/Uninterruptibles.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Striped64.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/MoreObjects.java

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jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-

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jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/annotations/package-info.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/primitives/package-info.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Equivalence.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Strings.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/package-info.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SortedLists.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
/ * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ContiguousSet.java
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/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * @see Futures#catching
 *
 * @since 25.0
 */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFutureFutureCatchingSpecialization.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/Futures.java
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 * /
 /***/
 * * Holder for extra methods of { @code Objects} only in web. Intended to be empty for regular
 * * version.
 */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingListMultimap.java

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jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/primitives/ImmutableIntArray.java

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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODOTO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
/*

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  jar/com/google/common/collect/ObjectArrays.java

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  jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25.0-jre-sources-4-
  jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25.0-jre-sources-4-
  jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25.0-jre-sources-4-
  jar/com/google/common/base/JdkPattern.java

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  jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Objects.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/MutableGraph.java
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* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's java.util.HashMap class.
*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/JdkBackedImmutableSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/graph/Traverser.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/PairedStatsAccumulator.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteSink.java
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  jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/annotations/GwtCompatible.java
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  jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/RegularImmutableMap.java
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  jar/com/google/common/collection/StandardTable.java
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  jar/com/google/common/collection/HashBasedTable.java
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  jar/com/google/common/collection/Range.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableSortedSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/SingletonImmutableBiMap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableBiMap.java
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  jar/com/google/common/graph/AbstractValueGraph.java
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  jar/com/google/common/collect/Comparators.java
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  jar/com/google/common/graph/UndirectedGraphConnections.java
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data
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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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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
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1.417 jibx-schema 1.2.4.5
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* /opt/ws_local/PERMITS_SQL/1010808396_1591372172.69/0/jibx-schema-1-2-4-5-sources-jar/org/jibx/schema/elements/IncludeElement.java
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jar/org/jibx/schema/elements/ComplexContentElement.java
* /opt/ws_local/PERMITS_SQL/1010808396_1591372172.69/0/jibx-schema-1-2-4-5-sources-
jar/org/jibx/schema/elements/AnnotationElement.java
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* /opt/ws_local/PERMITS_SQL/1010808396_1591372172.69/0/jibx-schema-1-2-4-5-sources-
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* /opt/ws_local/PERMITS_SQL/1010808396_1591372172.69/0/jibx-schema-1-2-4-5-sources-jar/org/jibx/schema/elements/CommonCompositorBase.java
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1.418 jdom 1.1.3

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/AbstractDOMAdapter.java
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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Namespace.java
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$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp $

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$Id: Verifier.java,v 1.57 2009/07/23 05:54:23 jhunter Exp $

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*/opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Verifier.java

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$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/SAXHandler.java
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$Id: DocType.java,v 1.32 2007/11/10 05:28:58 jhunter Exp $

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$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp $

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*/opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/JDOMParseException.java
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$Id: XSLTransformException.java,v 1.4 2007/11/10 05:29:02 jhunter Exp$

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$Id: ContentList.java,v 1.42 2007/11/10 05:28:58 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/XercesDOMAdapter.java
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*/

Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/CrimsonDOMAdapter.java
No license file was found, but licenses were detected in source scan.

/*--

$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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$Id: XMLOutputter.java,v 1.117 2009/07/23 05:54:23 jhunter Exp $

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/*

*/

Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/output/XMLOutputter.java
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$Id: BuilderErrorHandler.java,v 1.13 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-
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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/ProcessingInstruction.java

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$Id: JDOMSource.java,v 1.20 2007/11/10 05:29:02 jhunter Exp $
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$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/JDOMFactory.java

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$Id: JDOMLocator.java,v 1.4 2007/11/10 05:29:01 jhunter Exp $

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Found in path(s):
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$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp $
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$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp $

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$Id: JAXPParserFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/JAXPParserFactory.java
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*/

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/Comment.java
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$Id: JaxenXPath.java,v 1.20 2007/11/10 05:29:02 jhunter Exp $

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*/opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/xpath/JaxenXPath.java
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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/output/DOMOutputter.java
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/*--
Std: DescendantIterator.java,v 1.6 2007/11/10 05:28:58 jhunter Exp $

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$Id: CDATA.java,v 1.32 2007/11/10 05:28:58 jhunter Exp$

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$Id: IllegalTargetException.java,v 1.15 2007/11/10 05:28:59 jhunter Exp $

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$Id: SAXBuilder.java,v 1.93 2009/07/23 06:26:26 jhunter Exp$

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$Id: DefaultJDOMFactory.java,v 1.7 2007/11/10 05:28:58 jhunter Exp $

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$Id: OracleV1DOMAdapter.java,v 1.20 2007/11/10 05:28:59 jhunter Exp$

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/OracleV1DOMAdapter.java
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Found in path(s):
* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/adapters/XML4JDOMAdapter.java
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$Id: IllegalNameException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp $

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$Id: NamespaceStack.java,v 1.14 2007/11/10 05:29:01 jhunter Exp $

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$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp $

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$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp$

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/filter/ContentFilter.java
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$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/TextBuffer.java
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$Id: XPath.java,v 1.17 2007/11/10 05:29:02 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom(xpath/XPath.java
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$Id: DOMBuilder.java,v 1.60 2007/11/10 05:29:00 jhunter Exp $

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* /opt/cola/permits/1135863741_1613618250.91/0/jdom-1-1-3-sources-1-jar/org/jdom/input/DOMBuilder.java
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$Id: ElementFilter.java,v 1.20 2007/11/10 05:29:00 jhunter Exp $

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$Id: AndFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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Name: custompalette
Columns: 4
#
  0  0  0     Index 3
  65  38  30    Index 4
 103  62  49    Index 6
   79  73  72    Index 7
 114 101  97    Index 8
 208 127 100   Index 9
 151 144 142   Index 10
 221 207 199   Index 11

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1.424 hibernate-ehcache 3.3.1.GA

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   *
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   *
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1.427 curl 7.29.0-25.el7

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

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<html>
<body>
<p>
Class, field, and method level annotations for describing thread-safety policies.
</p>

<p>
Three class-level annotations describe the intended thread-safety promises of a class:
<code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>. <code>@Immutable</code> means that the class is immutable,
and implies <code>@ThreadSafe</code>. <code>@NotThreadSafe</code> is optional;
if a class is not annotated as thread-safe, it should be presumed not to be
thread-safe, but if you want to make it extra clear, use
<code>@NotThreadSafe</code>.
</p>
These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with `<code>@Immutable</code>` actually is immutable.

Field and method annotations

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

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The `<code>@GuardedBy(lock)</code>` annotation documents that a field or method should be accessed only with a specific lock held.

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1.435 cxf-rt-frontend-jaxws 2.5.9

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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(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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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
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# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
    db eval {
        CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
        TEXT NOT NULL DEFAULT ",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",b_blob
        BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
        DEFAULT 0);
        CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
        NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT
        NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),t_object_table
        TEXT NOT NULL,t_sqlorder TEXT NOT NULL DEFAULT 'Y' CHECK (t_sqlorder IN ('Y', 'N')));
        CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
        rd_doctransaction_id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table
        TEXT NOT NULL,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')));
    }
}
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN (Y', N')),t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN (Y', N')) ,i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12) ,f_quantity FLOAT NOT NULL DEFAULT 0.0,t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN (Y', N')) ,rc_category_id_target INTEGER NOT NULL DEFAULT 0,t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN (Y', N')) ,t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN (N', C', Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN (D', W', M', Y')) ,t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN (Y', N')) ,i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN (Y', N')) ,i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN (Y', N')) ,i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,rd_category_id INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN (Y', N')));
CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT '',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_close IN (Y', N')) ,t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN (C', D', A', T', L', W', O')) ,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN (Y', N')) ,rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_fullname TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE,
f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN (Y', N')) ,t_data TEXT ,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp(id INT,t_name TEXT,t_fullname TEXT,rd_category_id INT,t_bookmarked TEXT,i_NBOPERATIONS,f_REALCURRENTAMOUNT);
CREATE TABLE vm_budget_tmp(id INT,rc_category_id INT,
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account) Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account) Nom de la contrainte: fku_account_bank_rd_bank_id_id')       WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budget) Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget) Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkdc_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM budget WHERE budget.rc_category_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget) Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget) Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget) Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule)Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule)Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par category) Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category) Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilisé par doctransactionitem) Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionitem) Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionitem_doctransaction_item(rd_doctransaction_id_id) BEFORE DELETE ON doctransactionitem WHERE rd_doctransaction_id = NEW.id; END;

CREATE TRIGGER fki_doctransactionmsg_doctransaction_msg(rd_doctransaction_id_id) BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE rd_doctransaction_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionmsg_doctransaction_msg(rd_doctransaction_id_id) BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE rd_doctransaction_id = OLD.id; END;

CREATE TRIGGER fki_interest_account_acc(rd_account_id_id) BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE_ABORT, 'Impossible d’ajouter un objet (account est utilisé par interest)' WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fku_interest_account_acc(rd_account_id_id) BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE_ABORT, 'Impossible de modifier un objet (account est utilisé par interest)' WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fkdc_interest_acc(rd_account_id_acc) BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE rd_account_id = OLD.id; END;

CREATE TRIGGER fki_node_acc(rd_node_id_id) BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE_ABORT, 'Impossible d’ajouter un objet (node est utilisé par node)' WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;

CREATE TRIGGER fku_node_acc(rd_node_id_id) BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE_ABORT, 'Impossible de modifier un objet (node est utilisé par node)' WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;

CREATE TRIGGER fkdc_node_acc(rd_node_id_acc) BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE rd_node_id = OLD.id; END;

CREATE TRIGGER fki_operation_acc(rd_account_id_id) BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE_ABORT, 'Impossible d’ajouter un objet (account est utilisé par operation)' WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fku_operation_acc(rd_account_id_id) BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE_ABORT, 'Impossible de modifier un objet (account est utilisé par operation)' WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkd_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN
    UPDATE operation SET rd_account_id = OLD.id WHERE rd_account_id = OLD.id;
END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilisé par opération)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilisé par opération)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN
    UPDATE operation SET r_payee_id = 0 WHERE r_payee_id = OLD.id;
END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par opération)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par opération)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
    UPDATE operation SET rc_unit_id = 0 WHERE rc_unit_id = OLD.id;
END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON 
operation FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilisé par opération)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND
NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON 
operation FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, ' Impossible de modifier un objet (recurrentoperation est utilisé par opération)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND
NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
    UPDATE operation SET r_recurrentoperation_id = 0 WHERE r_recurrentoperation_id = OLD.id;
END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id' WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;

CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;

CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkdc_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW
BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN   SELECT
RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkd_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par
vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id
FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON
category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE
vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id)
AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN " ELSE (SELECT CASE WHEN s.t_symbol!="
THEN s.t_symbol ELSE t_name END) FROM unit s WHERE s.unit_id=unit.rd_unit_id) END) AS t_UNIT,(CASE
unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN
'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT
MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date)
FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE
IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND
s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE
FROM unitvalue s2 WHERE s2.unit_id=v_unit_tmp1.id AND
s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,(SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY= v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||IFNULL(t_PAYEE,'')||' '||v_operation.f_CURRENTAMOUNT||' '||(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisé à SUPPRIMER cette operation car en train de vous approcher' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM  interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisé à SUPPRIMER ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;
CREATE VIEW v_unitvalue_display AS SELECT *, IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)), '') AS t_UNIT, STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATE_MONTH, STRFTIME('%Y',unitvalue.d_date) AS d_DATE_YEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id), '') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id), '') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT, (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT, (SELECT s.tCATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY, (SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND, (CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPE_EXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPE_EXPENSENL, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATE_WEEK, STRFTIME('%Y-%m',v_operation.d_date) AS d_DATE_MONTH, STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATE_QUARTER, STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATE_SEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATE_YEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *, (SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS, bank.t_name AS t_BANK, bank.t_bank_number AS t_BANK_NUMBER, bank.t_icon AS t_ICON, v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT o.f_CURRENTAMOUNT FROM v_operation_display o INNER JOIN v_unit u ON o.rc_unit_id=u.id WHERE o.id=v_account.i_MOSTIMPSUBOP)) AS f_CURRENTAMOUNT_FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE, (SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE, sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';

CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce suiveur car utilisé dans des opérations rapprochées comme suivantes': END) t_delete_message FROM refund;

CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;

CREATE VIEW v_refund_display AS SELECT *, (SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;

CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;

CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce tiers car utilisé dans des opérations rapprochées comme suivantes': END) t_delete_message FROM payee;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT * FROM v_payee;

CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like '...') AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer cette catégorie car utilisé dans des opérations rapprochées comme suivantes': END) t_delete_message FROM category;

CREATE VIEW v_category AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_category_id=category.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM category;

CREATE VIEW v_category_display AS SELECT * FROM v_category;

CREATE VIEW v_category_displayname AS SELECT *, t_name AS t_displayname FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,
(SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS,
(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname||' > %') AS f_REALCURRENTAMOUNT,
(SELECT count(distinct(wrd.id)) FROM category wrd WHERE wrd.t_tree_id=v_category.ID) AS f_NBOPERATIONS,
(SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT
FROM v_category;

CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT,
i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS,
(CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD,
(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSENLS
FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT
FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER
FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname
FROM rule;

CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT
FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname
FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Natif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,
(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS
FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT *
FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname
FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD,
(SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT,
(SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',')) FROM v_budgetrule_displayname
WHERE
(v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND
(v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND
(v_budgetrule_displayname.t_category_condition='N' OR
  budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY
v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
  f_DELTabeforeTransfer, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_cmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
  f_DELTabeforeTransfer, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_cmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS
  t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON univalue FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'univalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR
  EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
tfullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
  new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id) END
WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET tfullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='"' OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.tfullname FROM category c WHERE c.id=new.rd_category_id) || new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
FROM v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;

# The next test requires FTS4
ifcapable !fts3 {
  finish_test
  return
}

# Taken from the gnome-shell project
#
  db close
  forcedelete test.db
  sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
  db eval {
    CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
    CREATE VIRTUAL TABLE fts USING fts4;
    CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
    CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, "mfo:groupId" INTEGER, "mfo:groupId:graph" INTEGER, "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
    CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
  }
} {/.* Goto .*/}
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER, "mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL, "mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL, "mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL, "mto:transferPrivacyLevel" TEXT NOT NULL, "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT NULL, "mto:transferCategory" TEXT NOT NULL, "mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY, "nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph" INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY, "nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER, "nao:description" TEXT COLLATE NOCASE, "nao:description:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL, "tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL, "tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL, "ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER, "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER, "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER, "ncal:attachmentContent" TEXT COLLATE NOCASE, "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER, "ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER, "ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL, "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL, "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER, "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL, "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:related" INTEGER, "ncal:related:graph" INTEGER, "ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER, "ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE NOCASE,
"ncal:relatedToSibling:graph" INTEGER, "ncal:duration" INTEGER,
"ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL,
"ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL,
"ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL,
"ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL,
"ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL,
"ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL,
"ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL,
"ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,
"nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE NOCASE,
"nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL,
"nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,
"nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT COLLATE NOCASE, "nco:contactUID:graph" INTEGER, "nco:contactLocalUID" TEXT COLLATE NOCASE, "nco:contactLocalUID:graph" INTEGER,
"nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,
"nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,
"nco:representative" INTEGER, "nco:representative:graph" INTEGER,
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate" INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate" INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE,
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT NULL,
"nco:containsContact" INTEGER NOT NULL,
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE, "nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER);
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>IMAccount_nco:hasIMContact</code></td>
<td>Stores the relationship between an IM account and its contacts.</td>
</tr>
<tr>
<td><code>IMAddress</code></td>
<td>Stores personal information about an IM address.</td>
</tr>
<tr>
<td><code>IMCapability</code></td>
<td>Stores information about IM capabilities.</td>
</tr>
<tr>
<td><code>InternationalDeliveryAddress</code></td>
<td>Stores international delivery addresses.</td>
</tr>
<tr>
<td><code>IsdnNumber</code></td>
<td>Stores ISDN numbers.</td>
</tr>
<tr>
<td><code>MessagingNumber</code></td>
<td>Stores messaging numbers.</td>
</tr>
<tr>
<td><code>ModemNumber</code></td>
<td>Stores modem numbers.</td>
</tr>
<tr>
<td><code>OrganizationContact</code></td>
<td>Stores organizational contacts.</td>
</tr>
<tr>
<td><code>PagerNumber</code></td>
<td>Stores pager numbers.</td>
</tr>
<tr>
<td><code>ParcelDeliveryAddress</code></td>
<td>Stores parcel delivery addresses.</td>
</tr>
<tr>
<td><code>PcsNumber</code></td>
<td>Stores Pcs numbers.</td>
</tr>
<tr>
<td><code>PersonContact</code></td>
<td>Stores personal information about a person.</td>
</tr>
<tr>
<td><code>PersonContact_nco:hasAffiliation</code></td>
<td>Stores the affiliation of a contact.</td>
</tr>
</tbody>
</table>

CREATE TABLE: `nco:IMAccount_nco:hasIMContact` (ID INTEGER NOT NULL, `nco:hasIMContact` INTEGER NOT NULL, `nco:hasIMContact:graph` INTEGER);


CREATE TABLE `nco:IMAddress_nco:imCapability` (ID INTEGER NOT NULL, `nco:imCapability` INTEGER NOT NULL, `nco:imCapability:graph` INTEGER);

CREATE TABLE `nco:IMCapability` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:InternationalDeliveryAddress` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:IsdnNumber` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:MessagingNumber` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:ModemNumber` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:OrganizationContact` (ID INTEGER NOT NULL PRIMARY KEY, `nco:logo` INTEGER, `nco:logo:graph` INTEGER);

CREATE TABLE `nco:PagerNumber` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:ParcelDeliveryAddress` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:PcsNumber` (ID INTEGER NOT NULL PRIMARY KEY);


CREATE TABLE `nco:PersonContact_nco:hasAffiliation` (ID INTEGER NOT NULL, `nco:hasAffiliation` INTEGER NOT NULL, `nco:hasAffiliation:graph` INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
"nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
"nfo:lifeChannels" INTEGER, "nfo:lifeChannels:graph" INTEGER,
"nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
"nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
"nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
"nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
"nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph"
INTEGER, "nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
"nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph"
INTEGER, "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT
NULL, "nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT
NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate"
INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph"
INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph"
INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER,
"nfo:equipmentSoftware" TEXT COLLATE NOCASE,
"nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:verticalResolution" INTEGER, "nfo:horizontalResolution" INTEGER, "nfo:orientation" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL, "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL, "nfo:hasRegionOfInterest" INTEGER NOT NULL, "nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER, "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER, "nfo:regionOfInterestHeight" REAL, "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType" INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
"nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER,
"nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
"nfo:softwareCmdLine" TEXT COLLATE NOCASE,
"nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph"
INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph"
INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE,
"nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT
COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
"nfo:definesFunction" TEXT COLLATE NOCASE,
"nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT
COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount"
INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate"
REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime"
INTEGER, "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
"nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
"nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
"nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph"
INTEGER, "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph"
INTEGER, "nid3:contentType" TEXT COLLATE NOCASE,
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL, "nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL, "nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL, "nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);

---

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<table>
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<tr>
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<td>nmm:MusicAlbum_nmm:albumArtist</td>
<td>MusicAlbum with album artist information</td>
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<td>nmm:MusicPiece</td>
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CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER,
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:PhoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:PhoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder"
CREATE TABLE "nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
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<td>scal:CalendarAlarm</td>
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<td>scal:Event</td>
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<td>scal:RSVPValues</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>scal:RecurrenceRule</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;scal:recurrencePattern&quot; TEXT COLLATE NOCASE, &quot;scal:recurrencePattern:graph&quot; INTEGER, &quot;scal:recurrenceStartDate&quot; INTEGER, &quot;scal:recurrenceStartDate:graph&quot; INTEGER, &quot;scal:exception&quot; INTEGER, &quot;scal:exception:graph&quot; INTEGER);</td>
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<td>scal:TimePoint</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;scal:dateTime&quot; INTEGER, &quot;scal:dateTime:graph&quot; INTEGER, &quot;scal:dateTime:localDate&quot; INTEGER, &quot;scal:dateTime:localTime&quot; INTEGER, &quot;scal:TimeZone&quot; TEXT COLLATE NOCASE, &quot;scal:TimeZone:graph&quot; INTEGER);</td>
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<td>scal:Todo</td>
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"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mlo:FeedMessage_mlo:enclosureList_ID_ID" ON
"mlo:FeedMessage_mlo:enclosureList" (ID, "mlo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBoxBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBoxBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBoxBox_ID_ID" ON
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CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON
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CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON
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CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON
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CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON
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CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON
"mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON
"mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID"
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond"),
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos"),
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno"),
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday"),
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CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule"),
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm"),
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation"),
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild"),
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent"),
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources"),
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule"),
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title"),
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact"),
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary"),
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON "nco:Contact_ncal:birthday" (ID, "ncal:birthday"),
CREATE UNIQUE INDEX "nco:Contact_ncal:belongsToGroup_ID_ID" ON "nco:Contact_ncal:belongsToGroup" (ID, "ncal:belongsToGroup"),
CREATE UNIQUE INDEX "nco:Contact_ncal:note_ID_ID" ON "nco:Contact_ncal:note" (ID, "ncal:note"),
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON "nco:Contact_scal:anniversary" (ID, "scal:anniversary"),
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON "nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdfs:Property_rdfs:subPropertyOf_ID_ID" ON "rdfs:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON "rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON "rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON "rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resourcerdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON
"scal:Attendee_scal:member" (ID, "scal:member")
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by")
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON
"scal:CalendarItem_scal:access" (ID, "scal:access")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON
"scal:CalendarItem_scal:attendee" (ID, "scal:attendee")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID,
"scal:belongsToCalendar")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact" (ID, "scal:contact")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule")
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress")
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory")
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact")
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails")

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE
ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:property" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
"nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE)) FROM (SELECT
"nco:property" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, (SELECT "nco:property" FROM "nco:Contact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:property" FROM "nco:Contact" WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:property" FROM "nco:Contact" WHERE ID =
"1_u") COLLATE NOCASE)
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nao:Property" AS
"nao:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13","ID" AND
"nie:InformationElement_nao:hasProperty13","nao:hasProperty" =
"nao:Property14","ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT
"nco:PersonContact1","ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
}
} {/.* Goto .*/

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0/BadFont
No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):
No license file was found, but licenses were detected in source scan.

Sources are in the "public domain". Rather than using fopen() to write XML or some proprietary format into

Found in path(s):

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged
1 - 24990  
2500 - 54995000
5500 - 649996000);

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.
http://biz.yahoo.com/rf/010129/n29305829.html);
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay  
Sent:Tuesday, October 16, 2001 3:42 PM  
To:Carter, Karen E. 
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai  
Sent:Friday, September 21, 2001 8:33 PM  
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne  
Sent:Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra  
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy  
Sent: Tuesday, September 25, 2001 2:41 PM  
To: Bisbee, Joanne  
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran.

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.

Thanks.

Dan

-----Original Message-----
From: Fagan, Fran  
Sent: Thursday, December 20, 2001 11:10 AM  
To: McCarty, Danny  
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT+P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG++PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.

');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series


Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you;

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira);

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160

-----Original Message-----
From: Royed, Jeff
Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed  
Enron  
Energy Operations  
Phone: 713-853-5295;  

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts  
15 Questar Pipeline  
40 Rockies Production  
22 West_2  
23 West_3  
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM  
To: "Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"  
<Leila_Mankarious@mhh.s.org>, "Marymankarious (E-mail)"  
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>  
cc:  

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.................................

Thanks
-------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM --------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
)
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at
which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

- Americas: 713 853 4357
- Europe: + 44 (0) 20 7783 7783
- Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski"<Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.
Thanks for your understanding in this matter.

T.Jae Black  
East Power Trading  
Assistant to Kevin Presto  
off. 713-853-5800  
fax 713-646-8272  
cell 713-539-4760

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.
The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks! Ben;

INSERT INTO email(from,to,subject,body) VALUES('enron_update@concureworkplace.com', 'mark.bernstein@enron.com', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks! Ben');

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';

INSERT INTO email(from,to,subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for’, FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----  
"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


INSERT INTO email(from,to,subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email(from,to,subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,
Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia


'):

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters of intent
  Review Enron asset base for potential reuse/licensing
  Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage....contract negotiations will probably be the critical path.
We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: "- *Koch, Kent" <kkoch@nisource.com>, ",- *
*Millar, Debra" <dmillar@nisource.com>, ",- *Burke, Lynn"
<brurke@nisource.com>
cc: "- *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution"s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332
the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info,'

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.
Brian McGuinn');
INSERT INTO email(from,[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email(from,[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartz@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.


');
INSERT INTO email(from,[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email(from,[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573
To: Darron C Giron/HOU/ECT@ECT  
cc:  
Subject: Feedback for Audrey Cook  

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

```
INSERT INTO email(from,to,subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson  
PWR-NG-LT-SERC: Jeff King  

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson  
EPMI-LT-SERC: Jeff King  

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
```

```
INSERT INTO email(from,to,subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.

ds

');
```

```
INSERT INTO email(from,to,subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.


```
I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122  
713/627-2011 (fax)  
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',
'RE: Constellation TC 5-7-01', 'Gregg,
I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey
big guy.....check this out.....

www.goreieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
included in the calc.
Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson  
Fundamental Analysis  
Enron North America  
(503) 464-8280  
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.  
Sent: Monday, December 17, 2001 9:44 AM  
To: Thomas, Paul D.  
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom  
Subject: RE: Current Enron TCC Portfolio  

Paul,

I reviewed NY’’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.  
Sent:Monday, December 17, 2001 9:08 AM  
To:Grace, Rebecca M.  
Subject:FW: Current Enron TCC Portfolio  

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul  
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie

');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???
What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense:
http://expensexms.enron.com’;

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.’;

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:
give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject: 

CoralJeff Whitnah 713-767-5374
Relaint Steve McGinn 713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
    COMMIT;
} {}
do_test fts2c-1.8 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark susan'
    }
} {6 17 25 38 42 73 74}
do_test fts2c-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'gas reminder'
    }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32 
  } } {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  } } {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  } }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  } }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  } }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
Review Enron asset base for <b>potential</b>/ licensing
Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  } }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }]
do_test fts2c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'first things'
  }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }]
do_test fts2c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
  }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}
do_test fts2c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"
  }
} {{Erin:
<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'
  }
} {{<b>pete</b>.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
do_test fts2c-5.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'enron OR com questar'
    }
} {{matt.smith@enron.com six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...
}}

finish_test

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.
#
# do_test fts1c-1.1 {
#  db eval {
#    CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
#    BEGIN TRANSACTION;
#    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.
#    }
#    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI: If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);
#    INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:
#      Employee Name: Christopher F. Calger
#      Status last changed by: Mollie E. Gustafson Ms
#      Expense Report Name: CC02.06.02

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1 – 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,’, 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com’, '<<Concur Expense Document>> - CC02.06.02’, 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/r/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark);

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com',
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.
Regards
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.
Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,
P
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com, ', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&$TV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook), 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.??

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com.', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle. ');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com.', 'TRV Notification:  (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=Wes\t+VaR&\category_cd=2&\category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&\current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com.', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron;
LS HPL LSK IC 30.000 / Enron;
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m.forney@enron.com', 'george.phillips@enron.com', ",
'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat
PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

')

Thanks

------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.
New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: +44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.,tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com','mark.bernstein@enron.com','The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks! Ben');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com','michelle.cash@enron.com','Expense Report Receipts Not Received','Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com','ray.alvarez@enron.com,mark.palmer@enron.com,karen.denne@enron.com','CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia
Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  - Finalize market analysis to refine business case, specifically projected revenue stream
  - Complete counterparty surveying, including targeting 3 CPs for letters of intent
  - Review Enron asset base for potential reuse/licensing
  - Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

---Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,
Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com;', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

    bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are
stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference

San Antonio, Texas    May 2-4, 2001    Westin Riverwalk

    See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I’ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP:  Mike Carson
PWR-NG-LT-SERC:  Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP:  Mike Carson
EPMI-LT-SERC:  Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie
Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'jono.bonin@enron.com, felicia.case@enron.com, bclapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.')
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy')
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w ww.gorelieberman-2000.com/)
INSERT INTO email([from],[to],subject,body) VALUES('kallen@enron.com', 'jacqeste@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip’);
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com’);
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', 'Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.
Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???,

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>
);
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.
Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a “in w/h Chile” contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm- au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com',...
'RE': 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374
Reliant
Steve McGinn
713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztolztoolzprint.jpg);

   COMMIT;
}
} {}
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
}

do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
}

do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
}

do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
}

do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}

do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}
do_test fts1c-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts1c-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
{ <b>...<b> place.? What do you think about going here <b>Christmas</b><i>eve</i>? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b> }

do_test fts1c-4.3 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}{ {EOL-Accen<tt>ture <b>Deal</b> <b>Sheet</b> intent
    Review Enron asset base for <b>potential</b>/ <b>reuse</b>/ licensing
    Contract negotiations <b>...</b> }

do_test fts1c-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}{ {EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }

do_test fts1c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
}{ {Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }

do_test fts1c-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
}{ <b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warwick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b> }

do_test fts1c-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH ""pursuant to"
}
}{ {Erin:

<b>Pursuant</b> to your request, attached are the Schedule to <b>...</b> }

do_test fts1c-4.8 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
LOG MESSAGES:

PARSING...

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
      WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com <b>... ...}} six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

} {{matt.smith@enron.com <b>... ...}} six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%%Copyright
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain

application code is free to use these routines as well, if desired.

MMFauxFont.prc

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with
SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.
<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>CONTACT INFORMATION:<br>SQLite Consortium<br>Dr. D. Richard Hipp<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>Email: drh.sqlite.org<br>http://www.sqlite.org<br>Tel: +1.704.948.4565</p>

<p><b>About Mozilla</b></p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.</p>

<p>CONTACT INFORMATION:<br>Mozilla Corporation<br>Jessica Waight<br>Tel: +1.415.345.4754<br>Email: jwaight@outcastpr.com</p>

<p><b>About Symbian Limited</b></p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the
United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.</p>

<p>CONTACT INFORMATION:</p>

Symbian Global Press Office  
Karen Hamblen  
+44 207 154 1707  
press@symbian.com  

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.</p>

SQLite core and like the SQLite core are in the public domain. The  
The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

/*  
** Return a pointer to the "temporary page" buffer held internally  
** by the pager. This is a buffer that is big enough to hold the  
** entire content of a database page. This buffer is used internally  
** during rollback and will be overwritten whenever a rollback  
** occurs. But other modules are free to use it too, as long as  
** no rollbacks are happening.  
*/

application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the
/*
 ** The "printf" code that follows dates from the 1980's. It is in
 ** the public domain. The original comments are included here for
 ** completeness. They are very out-of-date but might be useful as
 ** an historical reference. Most of the "enhancements" have been backed
 ** out so that the functionality is now the same as standard printf().
 **
 ** **********************************************************************/

** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">SQLite Consortium Agreement</h1>
<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the______ day of ______________, 2007 ("Effective Date") by and between __________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>
WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/ ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers
<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has
expressed a specific interest.
</p>

<h4>2.1.8 Code Quality</h4>
<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.
</p>

<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.
</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.
</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at 
<a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.
</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.
</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.
</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality
and correctness of those changes.

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than
once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci’s compliance with the objectives and requirements of this agreement.

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

<h4>2.3.9 New Consortium Members</h4>
<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>
<p>Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.</p>

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.
2.4 Responsibilities And Obligations Of Company

2.4.1 Funding

Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

2.4.2 Copyright Disclaimer

Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees

In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure.

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any
Confidential Information, execute a nondisclosure agreement containing provisions in Company’s favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>
Upon the termination of this Agreement, or upon Company’s earlier request, Hwaci shall deliver to Company all of Company’s property or Confidential Information that Hwaci may have in Hwaci’s possession or control.

<h2>5.0 Intellectual Property</h2>
<h3>5.1 No Assignment</h3>
Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.
<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers’ and Hwaci’s rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>
THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

7.0 Term And Termination

7.1 Term.
This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.
If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

7.3 Survival.
Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8. Miscellaneous

8.1 Nonassignment/Binding Agreement.
The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which
consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be
severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.
/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code. In place of
 ** a legal notice, here is a blessing:
 **
 ** ** May you do good and not evil.
 ** ** May you find forgiveness for yourself and forgive others.
 ** ** May you share freely, never taking more than you give.
 ** **
 ** ***********************************************************************
 **
 ** This file contains the VFS implementation for unix-like operating systems
 ** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
 **
 ** There are actually several different VFS implementations in this file.
 ** The differences are in the way that file locking is done. The default
 ** implementation uses Posix Advisory Locks. Alternative implementations
 ** use flock(), dot-files, various proprietary locking schemas, or simply
 ** skip locking all together.
 **
 ** ** This source file is organized into divisions where the logic for various
 ** subfunctions is contained within the appropriate division. PLEASE
 ** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
 ** in the correct division and should be clearly labeled.
 */
**
**  The layout of divisions is as follows:
**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
**    + for Posix Advisory Locks
**    + for no-op locks
**    + for dot-file locks
**    + for flock() locking
**    + for named semaphore locks (VxWorks only)
**    + for AFP filesystem locks (MacOSX only)
**  * sqlite3_file methods not associated with locking.
**  * Definitions of sqlite3_io_methods objects for all locking methods plus “finder” functions for each locking method.
**  * sqlite3_vfs method implementations.
**  * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**  * Definitions of sqlite3_vfs objects for all locking methods plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):

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

/ *
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.
* To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%%Version
No license file was found, but licenses were detected in source scan.

<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright

<found_in_path>/opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/different.html
No license file was found, but licenses were detected in source scan.

<a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>
The public domain and originals of author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require the public domain. <li>their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

<found_in_path>/opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/copyright.html
No license file was found, but licenses were detected in source scan.

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
##
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*******************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# Create a table to work with.
#
do_test func-0.0 {
execsql {CREATE TABLE tbl1(t1 text)}
foreach word {this program is free software} {
execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
execsql {
CREATE TABLE t2(a);
INSERT INTO t2 VALUES(1);
INSERT INTO t2 VALUES(NULL);
INSERT INTO t2 VALUES(345);
INSERT INTO t2 VALUES(NULL);
INSERT INTO t2 VALUES(67890);
SELECT * FROM t2;
}
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
    execsql [SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1]
} {rsroh}
do_test func-2.2 {
    execsql [SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1]
} {ee} {ogrftwis}
do_test func-2.3 {
    execsql [SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1]
} {esmes}
do_test func-2.4 {
    execsql [SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1]
} {esmes}
do_test func-2.5 {
    execsql [SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1]
} {eiar}
do_test func-2.6 {
    execsql [SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1]
} {eisameris}
do_test func-2.7 {
    execsql [SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1]
} {fr} {grwath}
do_test func-2.8 {
    execsql [SELECT t1 FROM tbl1 ORDER BY substr(t1,1,20)]
} {this software free program is}
do_test func-2.9 {
    execsql [SELECT substr(a,1,1) FROM t2]
} {1} {3} {6}
do_test func-2.10 {
    execsql [SELECT substr(a,2,2) FROM t2]
} {45} {78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {
    "u1234"!="u1234"
} {

# Put some UTF-8 characters in the database
#
    do_test func-3.0 {
    execsql [DELETE FROM tbl1]
    foreach word "contains UTF-8 characters hi\u1234ho" {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql [SELECT t1 FROM tbl1 ORDER BY t1]
} "UTF-8 characters contains hi\u1234ho"
    do_test func-3.1 {
    execsql [SELECT length(t1) FROM tbl1 ORDER BY t1]
} {5 10 8 5}
    do_test func-3.2 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on \u1234"
do_test func-3.5 {
execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont \u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
  execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \ሴ!=\u1234

# Test the abs() and round() functions.
#
if capable !floatingpoint {
do_test func-4.1 {
  execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
    INSERT INTO t1 VALUES(3,-2,-5);
  }
  catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}

Open Source Used In Cisco Vision Dynamic Signage Director 6.4  5041
ifcapable floatingpoint {
    do_test func-4.1 {
        execsql {
            CREATE TABLE t1(a,b,c);
            INSERT INTO t1 VALUES(1,2,3);
            INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
            INSERT INTO t1 VALUES(3,-2,-5);
        }
        catchsql {SELECT abs(a,b) FROM t1}
        } {1 {wrong number of arguments to function abs()}}
    }
    do_test func-4.2 {
        catchsql {SELECT abs() FROM t1}
        } {1 {wrong number of arguments to function abs()}}
    ifcapable floatingpoint {
        do_test func-4.3 {
            catchsql {SELECT abs(b) FROM t1 ORDER BY a}
            } {0 {2 1.2345678901234 2}}
        do_test func-4.4 {
            catchsql {SELECT abs(c) FROM t1 ORDER BY a}
            } {0 {3 12345.6789 5}}
    }
    ifcapable !floatingpoint {
        if {[working_64bit_int]} {
            do_test func-4.3 {
                catchsql {SELECT abs(b) FROM t1 ORDER BY a}
                } {0 {2 12345678901234 2}}
            }
        do_test func-4.4 {
            catchsql {SELECT abs(c) FROM t1 ORDER BY a}
            } {0 {3 1234567890 5}}
    }
    do_test func-4.4.1 {
        execsql {SELECT abs(a) FROM t2}
        } {1 {} 345 {} 67890}
    }
    do_test func-4.4.2 {
        execsql {SELECT abs(t1) FROM tbl1}
        } {0.0 0.0 0.0 0.0 0.0}
    ifcapable floatingpoint {
        do_test func-4.5 {
            catchsql {SELECT round(a,b,c) FROM t1}
            } {1 {wrong number of arguments to function round()}}
        do_test func-4.6 {
            catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
            } {0 {-2.0 1.23 2.0}}
        do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.5 + $i]
  set x2 [expr 40223.0 + $i]
  do_test func-4.17.$i {
    execsql {SELECT round($x1);}
  } $x2
}
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.05 + $i]
  set x2 [expr 40222.10 + $i]
  do_test func-4.18.$i {
    execsql {SELECT round($x1,1);}
  } $x2
}
do_test func-4.20 {
execsql {SELECT round(40223.499999999999999999999999999999999999999999); } {40223.0}

do_test func-4.21 {
    execsql {SELECT round(40224.499999999999999999999999999999999999999999); } {40224.0}
}
do_test func-4.22 {
    execsql {SELECT round(40225.499999999999999999999999999999999999999999); } {40225.0}
}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.499999999999999999999999999999999999999999,$i); } {40223.5}
    }
do_test func-4.24.$i {
        execsql {SELECT round(40224.499999999999999999999999999999999999999999,$i); } {40224.5}
    }
do_test func-4.25.$i {
        execsql {SELECT round(40225.499999999999999999999999999999999999999999,$i); } {40225.5}
    }
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.499999999999999999999999999999999999999999,$i); } {40223.499999999999999999999999999999999999999999}
    }
do_test func-4.27.$i {
        execsql {SELECT round(40224.499999999999999999999999999999999999999999,$i); } {40224.499999999999999999999999999999999999999999}
    }
do_test func-4.28.$i {
        execsql {SELECT round(40225.499999999999999999999999999999999999999999,$i); } {40225.499999999999999999999999999999999999999999}
    }
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5); } {1234567891.0}
}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5); } {12345678901.5}
}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5); } {123456789012.5}
}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5); } {1234567890123.5}
}
do_test func-4.33 {
    execsql {SELECT round(12345678901234.5); } {12345678901234.5}
}
do_test func-4.34 {
    execsql {SELECT round(123456789012345.0); } {123456789012345.0}
}
do_test func-4.35 {
    execsql {SELECT round(1234567890123456.0); } {1234567890123456.0}
}
do_test func-4.35 {
  execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.45}
do_test func-4.36 {
  execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.37 {
  execsql {SELECT round(9999999999999.55);}
} {9999999999999.6}
do_test func-4.38 {
  execsql {SELECT round(9999999999999.556);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
    execsql {SELECT coalesce(nullif(1,NULL),\'nil\')
} {1}
}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
    execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
    ifcapable explain {
        execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
        SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.33 1 67890 5}
}

ifcapable !floatingpoint {
do_test func-8.1 {
    ifcapable explain {
        execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
        SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.0 1 67890 5}
}

do_test func-8.2 {
    execsql {
        SELECT max('z+\'||a\'||abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP') FROM t2;
    }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP}

ifcapable tempdb {
do_test func-8.3 {
    execsql {
        CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z+\'||a\'||abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP') FROM t3;
    }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP}
} else {
do_test func-8.3 {

execsql {
CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
}
} {z+1abcdefhijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}
do_test func-8.4 {
execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
}
} {z+67890abcdefhijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}
ifcapable compound {
do_test func-8.5 {
execsql {
    SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
}
} {0}
do_test func-8.6 {
execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
}
} {integer}
do_test func-8.7 {
execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                        UNION ALL SELECT -9223372036854775807)
}
} {real}
ifcapable floatingpoint {
do_test func-8.8 {
execsql {
    SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                        UNION ALL SELECT -9223372036850000000)
}
} {1}
}
ifcapable !floatingpoint {
do_test func-8.8 {
execsql {
    SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                        UNION ALL SELECT -9223372036850000000)
}
} {1}
}
How do you test the random() function in a meaningful, deterministic way?

```sql
# do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
#
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
#
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
#
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
#
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)), length(randomblob(2000))
  }
} {32 1 2000}
```

The "hex()" function was added in order to be able to render blobs generated by randomblob(). So this seems like a good place to test hex().

```sql
# if capable bloblit {
  do_test func-9.10 {
    execsql {SELECT hex(x'00112233445566778899aAbBeCdDeEfF')} 
    {00112233445566778899AABBCCDDEEFF}
  }
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
  do_test func-9.11-utf16le {
    execsql {SELECT hex(replace('abcdefg','ef','12'))} 
    {6100620063006400310032006700}
  }
  do_test func-9.12-utf16le {
    execsql {SELECT hex(replace('abcdefg','"','12'))} 
    {6100620063006400650066006700}
  }
  do_test func-9.13-utf16le {
    execsql {SELECT hex(replace('abcdefg','a','aaa'))}
  }
}
# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
catchsql {
    SELECT testfunc(NULL,NULL);
}
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234)
}
} {1234}
do_test func-10.3 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL)
}
} {{}}
do_test func-10.4 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234)
);
}
} {1.234}
do_test func-10.5 {
execsql {
SELECT testfunc(
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234
);
}
} {1.234}
}
# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
execsql {
SELECT sqlite_version(*);
}
} [sqlite3 -version]
# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
do_test func-12.1-utf8 {
execsql {
SELECT test_destructor('hello world'), test_destructor_count();
}
} {{hello world} 1}
} else {
ifcapable {utf16} {

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do_test func-12.1-utf16 {
  execsql {
    SELECT test_destructor16('hello world'), test_destructor_count();
  }
} {hello world 1}
}
do_test func-12.2 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.3 {
  execsql {
    SELECT test_destructor('hello') || ' world';
  }
} {hello world}
do_test func-12.4 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.5 {
  execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(test_destructor('hello'));
    INSERT INTO t4 VALUES(test_destructor('world'));
    SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
  }
} {hello world}
do_test func-12.6 {
  execsql {
    SELECT test_destructor_count();
  }
} {0}
do_test func-12.7 {
  execsql {
    DROP TABLE t4;
  }
} {}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
  }
}
do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
} {}

do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
} {0 1}

do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
} {{0 0} {1 1}}

do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
} {{0 0} {1 0}}

do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "SELECT test_auxdata( ?, a ) FROM t4;"
  set STMT [sqlite3 Prepare $DB $sql -1 TAIL]
  sqlite3_bind_text $STMT 1 hello\000 -1
  set res [list]
  while { "SQLITE_ROW"==$[sqlite3_step $STMT] } {
    lappend res [sqlite3_column_text $STMT 0]
  }
  lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
  catch {
    db function [string repeat X 254] {return "hello"}
do_test func-14.2 {
  catch {
    db function [string repeat X 256] {return "hello"}
  }
}

do_test func-15.1 {
  catchsql {select test_error(NULL)}
}

do_test func-15.2 {
  catchsql {select test_error('this is the error message')}
}

do_test func-15.3 {
  catchsql {select test_error('this is the error message',12)}
}

do_test func-15.4 {
  db errorcode
}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
  execsql {
    CREATE TABLE tbl2(a, b);
  }
  set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
  sqlite3_bind_blob $::STMT 1 abc 3
  sqlite3_step $::STMT
  sqlite3_finalize $::STMT
  execsql {
    SELECT quote(a), quote(b) FROM tbl2;
  }
}

# Correctly handle function error messages that include %.
# Ticket #1354
#
do_test func-17.1 {
  proc testfunc1 args {error "Error %d with %s percents %p"}
  db function testfunc1 ::testfunc1
  catchsql {
    SELECT testfunc1(1,2,3);
  }
}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
}

if capable floatingpoint {
    do_test func-18.2 {
        execsql {
            INSERT INTO t5 VALUES(0.0);
            SELECT sum(x) FROM t5;
        }
    } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
    do_test func-18.3 {
        execsql {
            DELETE FROM t5;
            SELECT sum(x), total(x) FROM t5;
        } } {{} 0.0}
    do_test func-18.4 {
        execsql {
            INSERT INTO t5 VALUES(NULL);
            SELECT sum(x), total(x) FROM t5
        } } {{} 0.0}
    do_test func-18.5 {
        execsql {
            INSERT INTO t5 VALUES(NULL);
            SELECT sum(x), total(x) FROM t5
        } } {{} 0.0}
    do_test func-18.6 {
        execsql {
            INSERT INTO t5 VALUES(123);
            SELECT sum(x), total(x) FROM t5
        } } {123 123.0}

    # Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
    # an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
# do_test func-18.10 {
  execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
  }
} 0
# do_test func-18.11 {
  execsql {
    SELECT typeof(sum(x)) FROM t6
  }
} integer
#ifcapable floatingpoint {
# do_test func-18.12 {
  catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
  }
} {1 {integer overflow}}
# do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
  }
} 0.0
}
#ifcapable !floatingpoint {
# do_test func-18.12 {
  catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
  }
} {1 {integer overflow}}
# do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
  }
} 0.0
}
#if {[working_64bit_int]} {
# do_test func-18.14 {
  execsql {
    SELECT sum(-9223372036854775805);
  }
} -9223372036854775805
}
if capable compound && subquery {

do_test func-18.15 {
  catchsql {
    SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL
     SELECT 10 AS x);
  }
} {1 {integer overflow}}

if [[working_64bit_int]] {
  do_test func-18.16 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT 9223372036854775807 AS x UNION ALL
       SELECT -10 AS x);
    }
} {0 9223372036854775797}
  do_test func-18.17 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT -9223372036854775807 AS x UNION ALL
       SELECT 10 AS x);
    }
} {0 -9223372036854775797}
  do_test func-18.18 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT -9223372036854775807 AS x UNION ALL
       SELECT -10 AS x);
    }
} {1 {integer overflow}}
  do_test func-18.19 {
    catchsql {
      SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
    }
} {0 -1}
  do_test func-18.20 {
    catchsql {
      SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
    }
} {0 1}
  do_test func-18.21 {
    catchsql {
      SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
    }
} {0 -1}
  do_test func-18.22 {

catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
} } {0 1}
} ;# if capable compound && subquery

# Integer overflow on abs()
#
if [{[working_64bit_int]}] {
    do_test func-18.31 {
        catchsql {
            SELECT abs(-9223372036854775807);
        } } {0 9223372036854775807}
    do_test func-18.32 {
        catchsql {
            SELECT abs(-9223372036854775807-1);
        } } {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
    do_test func-19.1 {
        execsql {
            SELECT match(a,b) FROM t1 WHERE 0;
        } } {}
    do_test func-19.2 {
        catchsql {
            SELECT 'abc' MATCH 'xyz';
        } } {1 {unable to use function MATCH in the requested context}}
    do_test func-19.3 {
        catchsql {
            SELECT 'abc' NOT MATCH 'xyz';
        } } {1 {unable to use function MATCH in the requested context}}
    do_test func-19.4 {
        catchsql {
            SELECT match(1,2,3);
        } } {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if [{!catch {db eval {SELECT soundex('hello')}}}] {
set i 0
foreach {name sdx} {
  euler   E460
  EULER   E460
  Euler   E460
  ellery  E460
  gauss   G200
  ghosh   G200
  hilbert H416
  Heilbronn H416
  knuth   K530
  kant    K530
  Lloyd   L300
  LADD    L300
  Lukasiewicz L222
  Lissajous L222
  A       A000
  12345   ?000
} {
  incr i
  do_test func-20.$i {
    execsql {SELECT soundex($name)}
} $sdx
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
  catchsql {
    SELECT replace(1,2);
  } {
    1 {wrong number of arguments to function replace()}
  }
do_test func-21.2 {
  catchsql {
    SELECT replace(1,2,3,4);
  } {
    1 {wrong number of arguments to function replace()}
  }
do_test func-21.3 {
  execsql {
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
  } {
    null
  }
do_test func-21.4 {
  execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
  } {
    null
  }
do_test func-21.5 {  
excsql {    
    SELECT typeof(replace("This is the main test string", "main", NULL));  
  }  
  }  
do_test func-21.6 {  
excsql {    
    SELECT replace("This is the main test string", "main", "ALT");  
  }  
  }  
do_test func-21.7 {  
excsql {    
    SELECT replace("This is the main test string", "main", "larger-main");  
  }  
  }  
do_test func-21.8 {  
excsql {    
    SELECT replace("aaaaaa", "a", "0123456789");  
  }  
  }  
ifcapable tclvar {  
do_test func-21.9 {    
    # Attempt to exploit a buffer-overflow that at one time existed  
    # in the REPLACE function.    
    set ::str [string repeat A 29998]CC[string repeat A 35537]"    
    set ::rep [string repeat B 65536]    
    execsql {      
      SELECT LENGTH(REPLACE($::str, 'C', $::rep));    
    }    
  }  
}  
{29998 + 2*65536 + 35537}  

# Tests for the TRIM, LTRIM and RTRIM functions.  
#  
do_test func-22.1 {    
  catchsql {SELECT trim(1,2,3)}    
  }  
  }  
do_test func-22.2 {    
  catchsql {SELECT ltrim(1,2,3)}    
  }  
  }  
do_test func-22.3 {    
  catchsql {SELECT rtrim(1,2,3)}    
  }  
  }  
do_test func-22.4 {    
  execsql {SELECT trim('  hi  ');}    
  }  
  }  
do_test func-22.5 {  

execsql {SELECT ltrim('  hi  ');} {{hi  }}

do_test func-22.6 {
   execsql {SELECT rtrim('  hi  ');} {{ hi  }}
}
do_test func-22.7 {
   execsql {SELECT trim('  hi  ','xyz');} {{ hi  }}
}
do_test func-22.8 {
   execsql {SELECT ltrim('  hi  ','xyz');} {{ hi  }}
}
do_test func-22.9 {
   execsql {SELECT rtrim('  hi  ','xyz');} {{ hi  }}
}
do_test func-22.10 {
   execsql {SELECT trim('xxyzy  hi  zzzy','xyz');} {{ hi  zzzy}}
}
do_test func-22.11 {
   execsql {SELECT ltrim('xxyzy  hi  zzzy','xyz');} {{ hi  zzzy}}
}
do_test func-22.12 {
   execsql {SELECT rtrim('xxyzy  hi  zzzy','xyz');} {{ xxyzy  hi  zzzy}}
}
do_test func-22.13 {
   execsql {SELECT trim('  hi  ','');} {{  hi  zzzy}}
}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
do_test func-22.14 {
   execsql {SELECT hex(trim(x'c280e1bfbff48fbfbf6869','x'6162e1bfbfc280'))} {F48FBFBF6869}
}
do_test func-22.15 {
   execsql {SELECT hex(trim(x'ceb1ceb2ceb3','x'ceb1'));} {CEB2CEB3}
}
do_test func-22.16 {
   execsql {SELECT hex(trim(x'ceb1ceb2ceb3','x'ceb1'));} {CEB2CEB3}
}
do_test func-22.20 {
   execsql {SELECT typeof(trim(NULL));} {null}
}
do_test func-22.21 {
   execsql {SELECT typeof(trim(NULL,'xyz'));} {null}
}
do_test func-22.22 {
   execsql {SELECT typeof(trim('hello',NULL));} {null}
}
This is to test the deprecated sqlite3_aggregate_count() API.

if capable deprecated {
  do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
      SELECT legacy_count() FROM t6;
    }
    [3]
  }
}

# The group_concat() function.

do_test func-24.1 {
  execsql {
    SELECT group_concat(t1) FROM tbl1
  }
  {this,program,is,free,software}
}

do_test func-24.2 {
  execsql {
    SELECT group_concat(t1,' ') FROM tbl1
  }
  {{this program is free software}}
}

do_test func-24.3 {
  execsql {
    SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
  }
  {{this 2 program 3 is 4 free 5 software}}
}

do_test func-24.4 {
  execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
  }
  {{}}
}

do_test func-24.5 {
  execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
  }
  {this program is free software}
}

do_test func-24.6 {
  execsql {
    SELECT 'BEGIN-'' || group_concat(t1) FROM tbl1
  }
  {BEGIN-this, program, is, free, software}
}

# Ticket #3179: Make sure aggregate functions can take many arguments.

# None of the built-in aggregates do this, so use the md5sum() from the
test extensions.

#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
    append midargs ,/$i
    append midres /$i
    set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"
    set sql "SELECT md5sum(t1$midargs) FROM tbl1"
    do_test func-24.7.$i {
        db eval $::sql
    } $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
    } {
        ,.program,.is,.free,.software
    }
do_test func-24.9 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
    } {
        ,,,,,software
    }
}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
    } {
        ,program,.is,.free,.software
    }
do_test func-24.11 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
    } {
        ,software
    }
do_test func-24.12 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN "" WHEN 'program' THEN null ELSE t1 END) FROM tbl1
    }
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}
# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}

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do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}

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# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
  db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
  }
catchesql {
    INSERT INTO t28(x) VALUES(1);
  }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}
do_test func-29.3 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
  do_test func-29.4 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x>100} {set x many}
    set x
  } {many}
}
do_test func-29.5 {
  db close
  sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1

db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$u00A2$u20AC}]

for {set i 1} {$i<0xd800} {incr i 13} {
  do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xffffd} {incr i 17} {
  if {$i==0xfeff} continue
  do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
  do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   # May you do good and not evil.
#   # May you find forgiveness for yourself and forgive others.
#   # May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
##
#$Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp$#
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a    a
    aaron    aaron
    abaissiez    abaissiez
    abandon    abandon
    abandoned    abandon
    abase    abas
    abash    abash
    abate    abat
    abated    abat
    abatement    abat
    abatements    abat
    abates    abat
    abbess    abbess
    abbey    abbei
    abbeys    abbei
    abominable    abomin
    abbot    abbot
    abbots    abbot
    abbreviated    abbrevi
    abed    ab
    abel    abel
    aberga    aberga
    abergavenny    abergavenni
    abet    abet
    abetting    abet
    abominable    abomin
abhor  abhor
abhor  abhor
abhorred abhor
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abhors  abhor
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abide  abid
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antiopa antiopa
antipathy antipathi
antiphilus antipholu
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writer       writer
# Create a full-text index to use for testing the stemmer.
#
# db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
DELETE FROM t1_term;
DELETE FROM t1_content;
INSERT INTO t1(word) VALUES($pfrom);
}
}
SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>. No claim of ownership is made

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

Found in path(s):
No license file was found, but licenses were detected in source scan.

{string currentfile exch readstring pop}executeonly def

Found in path(s):
* /
No license file was found, but licenses were detected in source scan.

*/
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications should check the return code from [sqlite3_config()] to make sure that the call worked. The [sqlite3_config()] interface will return a non-zero [error code] if a discontinued or unsupported configuration option is invoked.
**
** <dl>
**[SQLITE_CONFIG_SINGLETHREAD]** <dt>SQLITE_CONFIG_SINGLETHREAD</dt>

**<dd>There are no arguments to this option. ^This option sets the**
**[threading mode] to Single-thread. In other words, it disables**
**all mutexing and puts SQLite into a mode where it can only be used**
**by a single thread. ^If SQLite is compiled with**
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then**
**it is not possible to change the [threading mode] from its default**
**value of Single-thread and so [sqlite3_config()] will return**
**[SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option.</dd>

**

**[SQLITE_CONFIG_MULTITHREAD]** <dt>SQLITE_CONFIG_MULTITHREAD</dt>

**<dd>There are no arguments to this option. ^This option sets the**
**[threading mode] to Multi-thread. In other words, it disables**
**mutexing on [database connection] and [prepared statement] objects.**
**The application is responsible for serializing access to**
**[database connections] and [prepared statements]. But other mutexes**
**are enabled so that SQLite will be safe to use in a multi-threaded**
**environment as long as no two threads attempt to use the same**
**[database connection] at the same time. ^If SQLite is compiled with**
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then**
**it is not possible to set the Multi-thread [threading mode] and**
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the**
**SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**

**[SQLITE_CONFIG_SERIALIZED]** <dt>SQLITE_CONFIG_SERIALIZED</dt>

**<dd>There are no arguments to this option. ^This option sets the**
**[threading mode] to Serialized. In other words, this option enables**
**all mutexes including the recursive**
**mutexes on [database connection] and [prepared statement] objects.**
**In this mode (which is the default when SQLite is compiled with**
**[SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access**
**to [database connections] and [prepared statements] so that the**
**application is free to use the same [database connection] or the**
**same [prepared statement] in different threads at the same time.**
**^If SQLite is compiled with**
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then**
**it is not possible to set the Serialized [threading mode] and**
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the**
**SQLITE_CONFIG_SERIALIZED configuration option.</dd>

**

**[SQLITE_CONFIG_MALLOC]** <dt>SQLITE_CONFIG_MALLOC</dt>

**^(This option takes a single argument which is a pointer to an**
**instance of the [sqlite3_mem_methods] structure. The argument specifies**
**alternative low-level memory allocation routines to be used in place of**
**the memory allocation routines built into SQLite.)^ ^SQLite makes**
**its own private copy of the content of the [sqlite3_mem_methods] structure**
**before the [sqlite3_config()] call returns.</dd>
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt> ** <dd> ^(This option takes a single argument which is a pointer to an ** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods] ** structure is filled with the currently defined memory allocation routines.)^ ** This option can be used to overload the default memory allocation ** routines with a wrapper that simulates memory allocation failure or ** tracks memory usage, for example. </dd> **

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt> ** <dd> ^This option takes single argument of type int, interpreted as a ** boolean, which enables or disables the collection of memory allocation ** statistics. ^When memory allocation statistics are disabled, the ** following SQLite interfaces become non-operational: ** <ul> ** <li> [sqlite3_memory_used()] ** <li> [sqlite3_memory_highwater()] ** <li> [sqlite3_soft_heap_limit64()] ** <li> [sqlite3_status()] ** </ul>^ ** ^Memory allocation statistics are enabled by default unless SQLite is ** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory ** allocation statistics are disabled by default. ** </dd> **

** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt> ** <dd> ^This option specifies a static memory buffer that SQLite can use for ** scratch memory. There are three arguments: A pointer an 8-byte ** aligned memory buffer from which the scratch allocations will be ** drawn, the size of each scratch allocation (sz), ** and the maximum number of scratch allocations (N). The sz ** argument must be a multiple of 16. ** The first argument must be a pointer to an 8-byte aligned buffer ** of at least sz*N bytes of memory. ** ^SQLite will use no more than two scratch buffers per thread. So ** N should be set to twice the expected maximum number of threads. ** ^SQLite will never require a scratch buffer that is more than 6 ** times the database page size. ^If SQLite needs needs additional ** scratch memory beyond what is provided by this configuration option, then ** [sqlite3_malloc()] will be used to obtain the memory needed. </dd> **

** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt> ** <dd> ^This option specifies a static memory buffer that SQLite can use for ** the database page cache with the default page cache implementation. ** This configuration should not be used if an application-define page ** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option. ** There are three arguments to this option: A pointer to 8-byte aligned ** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header.  The page header size is 20 to 40 bytes depending on
** the host architecture.  It is harmless, apart from the wasted memory,
** to make sz a little too large.  The first
** argument should point to an allocation of at least sz*N bytes of memory.
** SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache.  If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>

**

** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
**<dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

**

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
**<dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure.  The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^  SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns.  If SQLite is compiled with
** the [SQLITE_THREADSAFE] compiling option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
**<dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines,)^
This option can be used to overload the default mutex allocation routines with a wrapper used to track mutex usage for performance profiling or testing, for example. If SQLite is compiled with the `[SQLITE_THREADSAFE | SQLITE_THREADSAFE=0]` compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to `sqlite3_config()` with the `SQLITE_CONFIG_GETMUTEX` configuration option will return `SQLITE_ERROR`.

```
[[SQLITE_CONFIG_LOOKASIDE]]<dt>SQLITE_CONFIG_LOOKASIDE</dt>

This option takes two arguments that determine the default memory allocation for the lookaside memory allocator on each database connection. The first argument is the size of each lookaside buffer slot and the second is the number of slots allocated to each database connection. SQLite makes a copy of the object and uses it for page cache memory allocations.

```
[[SQLITE_CONFIG_PCACHE2]]<dt>SQLITE_CONFIG_PCACHE2</dt>

This option takes a single argument which is a pointer to an `sqlite3_pcache_methods2` object. This object specifies the interface to a custom page cache implementation. SQLite makes a copy of the object and uses it for page cache memory allocations.

```
[[SQLITE_CONFIG_GETPCACHE2]]<dt>SQLITE_CONFIG_GETPCACHE2</dt>

This option takes a single argument which is a pointer to an `sqlite3_pcache_methods2` object. SQLite copies of the current page cache implementation into that object.

```
[[SQLITE_CONFIG_LOG]]<dt>SQLITE_CONFIG_LOG</dt>

The `SQLITE_CONFIG_LOG` option is used to configure the SQLite global [error log]. The `SQLITE_CONFIG_LOG` option takes two arguments: a pointer to a function with a call signature of `void(*)(void*,int,const char*)`, and a pointer to void. If the function pointer is not NULL, it is invoked by `sqlite3_log()` to process each logging event. If the function pointer is NULL, the `sqlite3_log()` interface becomes a no-op. The void pointer that is the second argument to `SQLITE_CONFIG_LOG` is passed through as the first parameter to the application-defined logger function whenever that function is invoked. The second parameter to the logger function is a copy of the first parameter to the corresponding `sqlite3_log()` call and is intended to be a [result code] or an [extended result code]. The third parameter passed to the logger is log message after formatting via `sqlite3_snprintf()`.

The SQLite logging interface is not reentrant; the application-defined logger supplied by the application must not invoke any SQLite interface. In a multi-threaded application, the application-defined logger function must be threadsafe.
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
** 
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dt>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#      May you do good and not evil.
#      May you find forgiveness for yourself and forgive others.
#      May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:
Minimum: 5000
Increment: 1000

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>24990</td>
</tr>
<tr>
<td>2500 - 54995000</td>
<td>5000</td>
</tr>
<tr>
<td>5500 - 64996000</td>
<td></td>
</tr>
</tbody>
</table>

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com, laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.
Regards
Delainey;

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',
'RE: worksheets', 'Fran,

If Julie”的 merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”的 sheets as well.

Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.
Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification:  (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ')

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know. ?? ii

- About St Pauls.

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1- Revised Reply Brief Due today 7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20, 2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20, 2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29, 2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ",,'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat
PS. Just a reminder to add the "*" by the title of calculated points.);

INSERT INTO email(from,[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ----------------------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
'

INSERT INTO email(from,[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done..................................

Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ----------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.
New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: 
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
tax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.,tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', ". The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia
Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters of intent
  Review Enron asset base for potential reuse/licensing
  Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

')
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.

')
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com,','Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info','

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,
Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn’);

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just haven't had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

---

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

'):

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com, ', 'Postings', 'Please see the
attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu,
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben
Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.

PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA
Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to
the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your
comments.

Marie
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks. '); INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy'); INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', "', 'hey big guy.....check this out.....

w www.gorelieberman-2000.com/'); INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', ", 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson”. There are two links:

1) "Adj L_R” is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002” link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3” indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.
Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
'));
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'C..kenne@enron.com', 'RE:
What about this too???,`

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', ", 'Have a great weekend!  Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ", 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.
Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
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Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
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Australia:
1800 678-515
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eurosupport@palm.3com.com

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1800 678-515
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Canada:
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0800 446-398
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Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
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1800 678-515
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Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

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0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
'RE:', 'duke contact?'

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01  
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker: Richard McDougall  
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

COMMIT;

}{}

########################################################################
# Everything above just builds an interesting test database. The actual  
# tests come after this comment.  
########################################################################

do_test fts3ac-1.2 {  
execsql {  
SELECT rowid FROM email WHERE email MATCH 'mark'  
}  
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {  
execsql {  
SELECT rowid FROM email WHERE email MATCH 'susan'  
}  
}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"
  }
} {}
do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts3ac-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
Do_test fts3ac-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations}}
Do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations}}
Do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
Do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{<b>chris</b>.germany@enron.com' bet this <b>is</b> next
to <b>about going here Christmas
eve</b>...<b>}</b>}}
Do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
} {{Erin:
<P>\Pursuant\ to your request, attached are the Schedule to the ISDA Master Agreement,
together</P>...<b>}</b>}}
Do_test fts3ac-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{<b>davis</b>@enron.com<b>...@</b>3; No <b>ancillary</b> schedules awarded<b>...@</b>detected in
<b>Load</b> schedule.
LOG

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com ...} 31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies </b> ...</b> ]}

do_test fts3ac-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@enron.com ...} 31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies </b> ...</b> ]}

# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
  execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3} {0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
  execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3}}

finish_test

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* {cvx $error/errormessage get(Error

1.440 tilt 1.4.1

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* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/jjdoc/Generator.java
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* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/jjtree/IO.java
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* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/parser/OneOrMore.java
* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/parser/ZeroOrOne.java
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* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/jjtree/ASTJavacodeBody.java
* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/parser/ZeroOrMore.java
* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/parser/NormalProduction.java
* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/jjtree/JTTreeState.java
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* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/jjtree/NodeScope.java
* /opt/ws_local/PERMITS_SQL/1034891552_1591003111.48/0/javacc-4-0-sources-jar/org/javacc/jjtree/ASTBNFNodeScope.java
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1.445 bind 9.9.4-29.el7

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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 3a0982da308228d796df35f98d787c5c6f2bb5b6.
   Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
   Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
   Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.449 libfastjson 0.99.4 3.el7

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1.450 llvm 3.6.2-2.el7

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; RUN: ltc %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {  
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246: ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {  
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpadd %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK:     %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT: vmovdqa32(%rsi), %ymm1
    ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, <64 x i32> %4
    %6 = add nuw nsw <64 x i32> %5, %6
    %7 = lshr <64 x i32> %6, %6
    store <64 x i8> %7, <64 x i8>* undef, align 4
    ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {

      ; CHECK-LABEL: pmaddwd_32_256:
      ; CHECK:       # %bb.0:
      ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
      ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
      ; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
      ; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
      ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
      ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
      ; CHECK-NEXT:    vzeroupper
      ; CHECK-NEXT:    retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* undef, align 4
ret void

}
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqaf64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {    
; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {    
; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpsubusb64 (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, 32(%rdx)
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
}
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: _Z9test_charPcS_i_256:
  ; CHECK:    # %bb.0: # %entry
  ; CHECK-NEXT:    movl %edx, %eax
  ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:    xorl %ecx, %ecx
  ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
  ; CHECK-NEXT:    .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB8_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
  ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
  ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
  ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm3, %ymm5
  ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
  ; CHECK-NEXT:    vpmaddwd %ymm5, %ymm3, %ymm3
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
  ; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
  ; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm3
  ; CHECK-NEXT:    vpaddd %ymm3, %ymm1, %ymm1
  ; CHECK-NEXT:    vpaddd %ymm4, %ymm3, %ymm3
  ; CHECK-NEXT:    vpaddd %ymm5, %ymm3, %ymm3
  ; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm3
  ; CHECK-NEXT:    addq $32, %rcx
  ; CHECK-NEXT:    cmpq %rcx, %rax
  ; CHECK-NEXT:    jne .LBB8_1
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT:    vextract128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT:    vmovd %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq

entry:
  %3 = zext i32 %2 to i64
  br label %vector.body
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; CHECK:      # %bb.0: # %entry
  ; CHECK-NEXT: movl %edx, %eax
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: xorl %ecx, %ecx
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB9_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
  ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
  ; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
  ; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
  ; CHECK-NEXT: addq $32, %rcx
  ; CHECK-NEXT: cmpq %rcx, %rax
  ; CHECK-NEXT: jne .LBB9_1
  ; CHECK-NEXT: # %bb.2: # %middle.block
  ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT: vpmovsxhwv (%rdi,%rcx), %zmm2
  ; CHECK-NEXT: vpmovsxhwv (%rsi,%rcx), %zmm3
  ; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
  ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT: vmovd %xmm0, %eax
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
entry:
  %3 = zext i32 %2 to i64
br label %vector.body
vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" { ; CHECK-LABEL: sad_16i8_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdq a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2
}
def i32 @sad_16i8_512() "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: sad_16i8_512:  
  ; CHECK:       # %bb.0: # %entry  
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00  
  ; CHECK-NEXT: .p2align 4, 0x90  
  ; CHECK-NEXT: .LBB11_1: # %vector.body  
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
  ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1  
  ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1  
  ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0  
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1  
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1  
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
  ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
  ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]  
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0  
  ; CHECK-NEXT: vmovd %xmm0, %eax  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
entry:  
br label %vector.body

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i8> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 0
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 0
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define void @sbt016f32_256(<16 x i16> %a, <16 x float> %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbt016f32_256:
 ; CHECK:   # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm1
 ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
 ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
 ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1>
 %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  cvttdq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  cvttdq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  cvttdq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:  cvttdq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:  cvttdq2ps %zmm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
; CHECK-LABEL: ubto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpmovm2d %k2, %ymm0
; CHECK-NEXT:    vpmovm2d %k3, %ymm0
; CHECK-NEXT:    vpmovm2d %k4, %ymm0
; CHECK-NEXT:    vpmovm2d %k5, %ymm0
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vmovaps %ymm2, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, 128(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovm2d %k1, %zmm0
; CHECK-NEXT:    vpmovm2d %k2, %zmm0
; CHECK-NEXT:    vpmovm2d %k3, %zmm0
; CHECK-NEXT:    vpmovm2d %k4, %zmm0
; CHECK-NEXT:    vpmovm2d %k5, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, 96(%rdi)
; CHECK-NEXT:    vmovaps %zmm2, 128(%rdi)
; CHECK-NEXT:    vmovaps %zmm3, 160(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq

%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq

%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq

%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
ret <16 x i16> %select  
}  
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
; CHECK-LABEL: test_16f32tosb_512:  
; CHECK:  
; # %bb.0:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptosi <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
ret <16 x i16> %select  
}  
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: mul256:  
; CHECK:  
; # %bb.0:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
; CHECK-NEXT:  
%a = load <16 x float>, <16 x float>* %ptr  
%mask = fptosi <16 x float> %a to <16 x i1>  
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
ret <16 x i16> %select  
}
m[0][26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]

; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]

; CHECK-NEXT: vpmullw %ymm2, %ymm4, %ymm2
; CHECK-NEXT: vpmullw %ymm5, %ymm2, %ymm2

; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm3 = ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]

; CHECK-NEXT: vpmullw %ymm2, %ymm1, %ymm1
; CHECK-NEXT: vpackuswb %ymm2, %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper

; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} %zmm2 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],zmm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-NEXT: vpunpckhbw {{.*#+}} %zmm3 =
zmm0[8],zmm9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4,2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,62,63,63]
; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
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Developed by:

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Program Directory
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<none yet>  

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0  -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0  -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0  -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  %VEC256-LABEL: 'zext256'
  %VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  %VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  %VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  %VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  %VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  %VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void

  %VEC512-LABEL: 'zext256'
  %VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  %VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  %VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  %VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  %VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  %VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}
define void @zext512() "min-legal-vector-width"="512" {

define void @sext256() "min-legal-vector-width"="256" {
  %A = sext <8 x i8> undef to <8 x i64>
  %B = sext <8 x i16> undef to <8 x i64>
  %C = sext <16 x i8> undef to <16 x i32>
  %D = sext <16 x i16> undef to <16 x i32>
  %E = sext <32 x i8> undef to <32 x i16>
  ret void
}

; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>

define void @sext512() "min-legal-vector-width"="512" {
 ; AVX-LABEL: 'sext512'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; SKX256-LABEL: 'sext512'
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <8 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

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 */

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [i32 1, label %sw.bb.i,i32 2, label %sw.bb3.i]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [i32 1, label %sw.bb.i17,i32 2, label %sw.bb3.i20]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
  ; First, extend each i32 to i64  
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0  
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0  
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0  
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0  
  ; Next, convert each to double.  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_HI]]  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK1_LO]]  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK1_HI]]  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK2_LO]]  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK2_HI]]  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK3_LO]]  
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK3_HI]]  
  ; CHECK: ret  
  %flt = sitofp <16 x i32> %in to <16 x double>  
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>  
  ret <16 x double> %res  
}  
  ; This one is small enough to satisfy isSimple, but still illegally large.  
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {  
  ; CHECK-DAG: scvtf.2d v0, v0  
  ; CHECK-DAG: scvtf.2d v1, v1  
  ; CHECK: ret  
  %flt = sitofp <4 x i64> %in to <4 x double>  
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>  
  ret <4 x double> %res  
}  
  ; RUN: opt %s -inline -S | FileCheck %s
define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]]=[bitcast i32 805874720 to i32]
; CHECK-DAG: %[[C2:const[0-9]?]]=[bitcast i32 805874688 to i32]
; CHECK-DAG: %[[C3:const[0-9]?]]=[bitcast i32 805873720 to i32]
; CHECK-DAG: %[[C4:const[0-9]?]]=[bitcast i32 805873688 to i32]
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]]=add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]]=add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]]=add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]]=add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]]=add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]]=add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8 %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttopr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttopr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttopr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttopr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttopr (i32 805874727 to i8*)
  store i8 %4, i8* inttopr(i32 805873688 to i8*)
  store i8 %3, i8* inttopr(i32 805873719 to i8*)
  store i8 %2, i8* inttopr(i32 805873720 to i8*)
  store i8 %1, i8* inttopr(i32 805873727 to i8*)
  store i8* inttopr(i32 805874800 to i8*), i8** @goo
  ret void
; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[C1:const[0-9]?] = bitcast i32 805874752 to i32
; CHECK-DAG: %[C2:const[0-9]?] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[C2] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[M1:const_mat[0-9]?] = add i32 %[C2], 4
; CHECK-NEXT: %2 = inttoptr i32 %[M1] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[M2:const_mat[0-9]?] = add i32 %[C2], 32
; CHECK-NEXT: %4 = inttoptr i32 %[M2] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[M3:const_mat[0-9]?] = add i32 %[C2], 62
; CHECK-NEXT: %6 = inttoptr i32 %[M3] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %[M4:const_mat[0-9]?] = add i32 %[C2], 94
; CHECK-NEXT: %8 = inttoptr i32 %[M4] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %10 = inttoptr i32 %[C1] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[C1:const[0-9]?] = bitcast i32 805874816 to i32
; CHECK-DAG: %[C2:const[0-9]?] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[C2] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[M1] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = add i32 %[M1], 124
; CHECK-NEXT: %5 = inttoptr i32 %[M2] to i32*
; CHECK-NEXT: %6 = load volatile i32, i32* %5, align 4
; CHECK-NEXT: %7 = inttoptr i32 %[C1] to i32*
; CHECK-NEXT: %8 = load volatile i32, i32* %7, align 4
define void @foo_i32() {
  entry:
    %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
    %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
    %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
    %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
    %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
    %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}
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<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
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<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
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; RUN: llc - %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
}
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1.451 commons-lang3 3.3.2

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 */
/**
 * A registry for service provider objects.
 * <p/>
 * Service providers are looked up from the classpath, under the path
* @code META-INF/services/\&lt;full-class-name&gt;.
* &lt;p&gt;
* For example:&lt;br&gt;
* @code META-INF/services/com.company.package.spi.MyService}. 
* &lt;p&gt;
* The file should contain a list of fully-qualified concrete class names,
* one per line.
* &lt;p&gt;
* The &lt;em&gt;full-class-name&lt;/em&gt; represents an interface or (typically) an
* abstract class, and is the same class used as the category for this registry.
* Note that only one instance of a concrete subclass may be registered with a
* specific category at a time.
* &lt;p&gt;
* &lt;small&gt;Implementation detail: This class is a clean room implementation of
* a service registry and does not use the proprietary { @code sun.misc.Service}
* class that is referred to in the &lt;em&gt;JAR File specification&lt;/em&gt;.
* This class should work on any Java platform.
* &lt;/small&gt; 
* 
* @author <a href="mailto:harald.kuhr@gmail.com">Harald Kuhr</a>
* @version $Id: com/twelvemonkeys/util/service/ServiceRegistry.java#2 $ 
* @see RegisterableService
* @see &lt;a href="http://java.sun.com/j2se/1.3/docs/guide/jar/jar.html#Service%20Provider">JAR File
  Specification</a&gt;&lt;/a&gt;
*/

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* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-
jar/com/twelvemonkeys/util/service/ServiceRegistry.java
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* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/DuplicateHandler.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/TokenIterator.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/Time.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/regex/RegExTokenIterator.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/WeakWeakMap.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/regex/WildcardStringParser.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/lang/DateUtil.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/NullMap.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/convert/TimeConverter.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/convert/NumberConverter.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/convert/PropertyConverter.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/convert/DefaultConverter.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/FilterIterator.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/ExpiringMap.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/lang/BeanUtil.java
* /opt/cola/permits/1136869015_1613965041.22/0/common-lang-3-3-2-sources-2-jar/com/twelvemonkeys/util/convert/NoAvailableConverterException.java
1.452 spring-context-support 4.1.7.RELEASE

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* /opt/cola/permits/1158685384_1619822142.23/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/ui/velocity/VelocityEngineUtils.java
* /opt/cola/permits/1158685384_1619822142.23/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1158685384_1619822142.23/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1158685384_1619822142.23/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1158685384_1619822142.23/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/ui/velocity/VelocityEngineFactory.java

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* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2.jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
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#
# # Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# text/plain java c c++ pl cc h
#
##############################################################################

text/html html HTML HTM
text/plaintext text TXT TEXT java c c++ pl cc h
image/gif gif GIF
image/ief ief
image/jpeg jpeg jpg jpe JPG
image/tiff tiff tif
image/x-xwindowdump xwd
application/postscript eps ps
application/rtf rtf
application/x-tex tex
application/x-texinfo texinfo texi
application/x-troff tr roff
audio/basic au
audio/midi midi
audio/x-aif aif
audio/x-aiff aiff
audio/x-mpeg mpeg
audio/x-wav wav
video/mpeg mpeg mpe
video/quicktimeqt mov
video/x-msvideo avi

##############################################################################

# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#
##############################################################################

# TEXT TYPES

text/x-speechtalk
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap xbm
# X-Windows pixmap (8-bit color)
image/x-xpixmap xpm
# Portable Network Graphics
image/png
# Image Exchange Format (RFC 1314)
image/ief
# JPEG
image/jpeg jpeg.jpg jpeg
# RGB
image/rbg rgb
# Group III Fax (RFC 1494)
image/g3fax g3f
# X Windowdump format
image/x-xwindowdump xwd
# Macintosh PICT format
image/x-pict pict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymappgm
# PBM (UNIX PPM package)
image/x-portable-bitmappbm
# PNM (UNIX PPM package)
image/x-portable-anymappnm
# Microsoft Windows bitmap
image/x-ms-bmp bmp
# CMU raster
image/x-cmu-rasterras
# Kodak Photo-CD
image/x-photo-cdpd
# Computer Graphics Metafile
image/cgm cgm
# CALS Type 1 or 2
image/x-cals mil cal
# Fractal Image Format (Iterated Systems)
image/fif fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsf dsf
# CMX vector image (Corel)
image/x-cmx cmx
# Wavelet-compressed (Summus)
image/wavelet wi
# AutoCad Drawing (SoftSource)
image/vnd.dwg dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf dxf
# Simple Vector Format (SoftSource)
image/vnd.svf svf

# AUDIO/VOICE/MUSIC RELATED TYPES
# ""basic"" audio - 8-bit u-law PCM
audio/basic

# Macintosh audio format (AIpple)
audio/x-aiff aiff aifc

# Microsoft audio
audio/x-wav wav

# MPEG audio
audio/x-mpeg mpega

# MPEG-2 audio
audio/x-mpeg-2 mp2a mpa2

# compressed speech (Echo Speech Corp.)
audio/echospeach es

# Toolvox speech audio (Voxware)
audio/voxwarevox vox

# Rapid Transit compressed audio (Fast Man)
application/fastman cc

# Realaudio (Progressive Networks)
application/x-pn-realaudio ram

# MIDI music data
x-music/x-midi mmid

# Koan music data (SSeyo)
application/vnd.koan skp

# Speech synthesis data (MVP Solutions)
text/x-speechtalk talk

# VIDEO TYPES

# MPEG video
video/mpeg mpeg mpg mpe

# MPEG-2 video
video/mpeg-2 v2v 2mpv2 mp2v

# Macintosh Quicktime
video/quicktime qt mov

# Microsoft video
video/x-msvideo avi

# SGI Movie format
video/x-sgi-movie movie

# VDOlive streaming video (VDOnet)
video/vdovdo

# Vivo streaming video (Vivo software)
video/vnd.vivo viv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac

# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk ice
# TEXT-RELATED

# PostScript
application/postscript

# Microsoft Rich Text Format
application/rtf

# Adobe Acrobat PDF
application/pdf

# Maker Interchange Format (FrameMaker)
application/vnd.mif

# Troff document
application/x-troff

# Troff document with MAN macros
application/x-troff-man

# Troff document with ME macros
application/x-troff-me

# Troff document with MS macros
application/x-troff-ms

# LaTeX document
application/x-latex

# Tex/Latex document
application/x-tex

# GNU TexInfo document
application/x-texinfo

# TeX dvi format
application/x-dvi

# MS word document
application/msword

# Office Document Architecture
application/oda

# Envoy Document
application/envoy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar

# 4.3BSD tar format
application/x-tar

# POSIX tar format
application/x-ustar

# Old CPIO format
application/x-cpio

# POSIX CPIO format
application/x-cpio

# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffit
# Fractal Image Format
application/fractalsf
# "Binary UEncoded"
application/octet-stream
# PC executable
application/octet-stream
# "WAIS ""sources"
application/x-wais-sources
# NCSA HDF data format
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash
# mBED multimedia data (mBED)
application/mbedlet
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp
# Astound Web Player multimedia data (GoldDisk)
application/astound
# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcnpnc
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxsl
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/cccvccv
# Spreadsheets (Visual Components)
workbook/formulaonenvts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvrw
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrvvr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica
# Computational meshes for numerical simulations
x-model/x-mesh
# Vis5D 5-dimensional data
application/vis5d
# IGES models -- CAD/CAM (CGM) data
application/iges
# Autocad WHIP vector drawings
drawing/x-dwf

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* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/coli/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/mail/MailPreparationException.java
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* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/cache/jcache/ehcache/EhCacheCache.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/cache/jcache/JCacheCache.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4.1.7-release-sources-2.jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java

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* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractKeyCacheInterceptor.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheMethodDetails.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/config/JCacheConfigurer.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheKeyInvocationContext.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/config/ProxyJCacheConfiguration.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/SimpleExceptionCacheResolver.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheKeyInvocationContext.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSourceAdvisor.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCache/removeOperation.java
* /opt/cola/permits/1158685384_1619822142.23/0/spring-context-support-4-1-7-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java

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

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1.455 vim 7.4.629-6.el7

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*uganda.txt*   For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL    by Bram Moolenaar

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SUMMARY
*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a sponsor. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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==============================================================================
Kibaale Children’s Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water
and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccfdonations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

Arnaud LE HORS BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)

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1.463 milyn-smooks-edi 1.4

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko.
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

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).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
* A collection of File Manager and related routines
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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The following copyright applies to the Mac OS "macbin3" decoding code
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* MacBinaryIII.h
* * Copyright 1997 Christopher Evans (cevans@poppybank.com)
* *
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* *******************************************************
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* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthal leonardr@netcom.com)

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*******************************************************

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTIONS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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

1.465 xbean-naming 3.9
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1.471 unzip 6.0-21.el7

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the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

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There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port). These copyrights
are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

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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* MoreFiles
  *
* A collection of File Manager and related routines
* *
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* with significant code contributions by Nitin Ganatra
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*
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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.
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-----

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.472 c3p0 0.9.1.1

1.472.1 Available under license :

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Version 2.1, February 1999

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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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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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
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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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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1.480 jasper 6.0.29

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1.481 mule-module-jaas 3.6.1

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  jar/org/mule/module/jaas/loginmodule/DefaultLoginModule.java
* /opt/ws_local/PERMITS_SQL/1025582721_1594522189.58/0/mule-module-jaas-3-6-1-sources-1-
  jar/org/mule/module/jaas/config/JaasNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1025582721_1594522189.58/0/mule-module-jaas-3-6-1-sources-1-
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy. This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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1.493 swscale 5.5.100

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1.495 coreutils 8.22-24.el7

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*  
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*  
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* 
* M. Welsh, 6 July 1996
* 
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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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(If you think you should be in this list, but you are not, drop a
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*/
/**
 * Constructs a new [ @link Textifier ]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ @link #Textifier(int) ]
 * version.
 */

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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) ]

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* 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>.
*/

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  jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1138552971_1614290541.32/0/asm-commons-4-1-sources-1-
  jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1138552971_1614290541.32/0/asm-commons-4-1-sources-1-
  jar/org/objectweb/asm/util/Value.java
* /opt/cola/permits/1138552971_1614290541.32/0/asm-commons-4-1-sources-1-
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```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>.
*/

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* /
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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}).
*/

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  jar/org/objectweb/asm/commons/GeneratorAdapter.java
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/**
 * Constructs a new { @link ClassNode}. <i>Subclasses must not use this
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1.510 effective-tld-names 0.4

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* /opt/ws_local/PERMITS_SQL/1071051225_1601366877.59/0/spring-security-web-3-1-0-release-sources-2.jar/org/springframework/security/web/PortMapper.java
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1.517 jasper 1.900.1-33.el7

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1.519 trousers 0.3.14-2.el7

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* Gets whether the transport represents a confidential connection (e.g. an SSL connection).
* @return whether the transport represents a confidential connection
*/
/**
 * Sets whether the transport represents a confidential connection.
 *
 * @param isConfidential whether the transport represents a confidential connection
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 */
/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
 */
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<HTML>
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<p>XMLObject interfaces for WS-Security 2004 elements.</p>
</p>
</p>
</p>
</p>
The security token profiles currently supported are:

- [Web Services Security UsernameToken Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-UsernameTokenProfile.pdf)
- [Web Services Security: SAML Token Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-SAMLTokenProfile.pdf)
- [Web Services Security X.509 Certificate Token Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-x509TokenProfile.pdf)
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/soap/soap11/impl/FaultActorImpl.java
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-
  jar/org/opensaml/ws/wstrust/impl/AuthenticatorMarshaller.java
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/security/provider/StaticSecurityPolicyResolver.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/AddressBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/WSFedObject.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/AddressImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceBuilder.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/Address.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceImpl.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/RequestedSecurityTokenUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceUnmarshaller.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceBuilder.java
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* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/util/resource/HttpResource.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/util/storage/ExpiringObjectStorageServiceSweeper.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/util/storage/ReplayCache.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/util/storage/MapBasedStorageService.java
* /opt/cola/permits/1141131886_1614934083.16/0/openws-1-4-2-1-sources-1-jar/org/opensaml/util/resource/ClasspathResource.java

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* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/AccessController.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/EncryptedProperties.java
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* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/codecs/AbstractIntegerCodec.java

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 * An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by either specially logging the event, logging out the current user, or invalidating the current user's account.
 *
 * Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from anywhere and will not require a lot of special exception handling.
 *
 * @author Jeff Williams (jeff.williams@aspectsecurity.com)
 */

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  jar/org/owasp/esapi/waf/configuration/ConfigurationParser.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/rules/DetectOutboundContentRule.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/rules/RuleUtil.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/rules/RestrictUserAgentRule.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/actions/BlockAction.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/actions/DefaultAction.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/internal/InterceptingPrintWriter.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/internal/Parameter.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/rules/AddHTTPHeaderRule.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/configuration/AppGuardianConfiguration.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/rules/AddHeaderRule.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/rules/HTTPMethodRule.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/actions/Action.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/waf/rules/IPRule.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
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* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/Log4JLoggerFactory.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/FileBasedAuthenticator.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/Log4JLogFactory.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/Validator.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/Log4JLogFactory.java
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 * *
 * @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */
/**
 * Return a @code List of strings of combined cipher modes that support
 * <b>both</b> confidentiality and authenticity. These would be preferred
 * cipher modes to use if your JCE provider supports them. If such a
 * cipher mode is used, no explicit &lt;i&gt;separate&lt;/i&gt; MAC is calculated as part of
 * the @code CipherText object upon encryption nor is any attempt made
 * to verify the same on decryption.
 * </p>&lt;p&gt;
 * The list is taken from the comma-separated list of cipher modes specified
 * by the ESAPI property
 * @code Encryptor.cipher_modes.combined_modes@.
 * *
 * @return The parsed list of comma-separated cipher modes if the property
 * was specified in @code ESAPI.properties@; otherwise the empty list is
 * returned.
 */

Found in path(s):
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the {keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * <p>
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * <p>
 * <b>NOTE:</b> This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class {JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 * 
 * @param keyDerivationKey A key used as an input to a key derivation function
 * to derive other keys. This is the key that generally
 * is created using some key generation mechanism such as
 * {CryptoHelper#generateSecretKey(String, int)}. The
 * "input" key from which the other keys are derived.
 * The derived key will have the same algorithm type
 * as this key. This KDK cannot be null.
 * @param keySize The cipher's key size (in bits) for the {keyDerivationKey}.
 * Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
 * <b>Note:</b> The derived key will have the same size as this.
 * @param purpose The purpose for the derived key. For the ESAPI reference implementation,
 * [JavaEncryptor], this <i>must</i> be either the string "encryption" or
 * "authenticity", where "encryption" is used for creating a derived key to use
 * for confidentiality, and "authenticity" is used for creating a derived key to
 * use with a MAC to ensure message authenticity. However, since parameter serves
 * the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
 * be set to anything other than {null} or an empty string when called outside
 * of [JavaEncryptor].
 * @return The derived {SecretKey} to be used according
 * to the specified purpose.
 * @throws NoSuchAlgorithmException The {keyDerivationKey} has an unsupported
 * encryption algorithm or no current JCE provider supports
 * "HmacSHA1".
 * @throws EncryptionException If "UTF-8" is not supported as an encoding, then
 * this is thrown with the original {UnsupportedEncodingException}
 * as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
 * be a common encoding supported by all Java implementations. Support
for it is usually in rt.jar.)
@throws InvalidKeyException Likely indicates a coding error. Should not happen.
@throws EncryptionException Throw for some precondition violations.
*/

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/crypto/KeyDerivationFunction.java
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~ @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
~ @created 2007

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* @created 2007
*/

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/IntrusionDetector.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/errors/ValidationException.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/errors/AvailabilityException.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/errors/IntegrityException.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/
jar/org/owasp/esapi/codecs/VBScriptCodec.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/User.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/reference/DefaultEncoder.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/codecs/PercentCodec.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/codecs/UnixCodec.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/reference/DefaultIntrusionDetector.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/reference/DefaultRandomizer.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/filters/ESAPIFilter.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/reference/validation/CreditCardValidationRule.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4.jar/org/owasp/esapi/Authenticator.java

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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 */
Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
  jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java
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/**
 * Encodes and decodes to and from Base64 notation.
 *
 * Homepage: [http://iharder.net/base64](http://iharder.net/base64)
 * (based on version 2.2.2).
 *
 * The `<tt>options</tt>` parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.
 *
 * The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:
 *
 * ```
 * String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES
 * );
 * ```
 *
 * to compress the data before encoding it and then making the output have no newline characters.
 *
 *
 * Original change Log:
 * </p>
 *
 * v2.2.2 - Fixed encodeFileToFiles and decodeFileToFiles to use the
 * Base64.InputStream class to encode and decode on the fly which uses
 * less memory than encoding/decoding an entire file into memory before writing.
 * v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~< 40 bytes).
 * v2.2 - Added some helper methods for encoding/decoding directly from
 * one file to the next. Also added a main() method to support command line
 * encoding/decoding from one file to the next. Also added these Base64 dialects:
 * BASE64 dialects:
 * The default is RFC3548 format.
 * Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
 * URL and file name friendly format as described in Section 4 of RFC3548.
 * http://www.faqs.org/rfcs/rfc3548.html
 * Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
 * URL and file name friendly format that preserves lexical ordering as described
I am placing this code in the Public Domain. Do with it as you will.
This software comes with no guarantees or warranties but with plenty of well-wishing instead!
Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.

@version 2.2.2
*/

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 *
 * @author Matt Seil (mseil .at. owasp.org)
 * @created 2017
 */

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandler.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandlers.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/cleaning/NewlineLogScrubber.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/cleaning/CompositeLogScrubber.java
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* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/cleaning/LogScrubber.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/slf4j/Slf4JLogger.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridge.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridgeImpl.java
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/logging/cleaning/CodecLogScrubber.java

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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */
/**
* Executes a system command after checking that the executable exists and
  * escaping all the parameters to ensure that injection is impossible.
  * Implementations must change to the specified working
  * directory before invoking the command.
  *
  * @param executable
  *         the command to execute
  * @param params
  *         the parameters of the command being executed
  * @param workdir
  *         the working directory
  * @param codec
  *         the codec to use to encode for the particular OS in use
  * @param logParams
  *         use false if any parameters contains sensitive or confidential information
  *
  * @return the output of the command being run
  *
  * @throws ExecutorException
  *         the service exception
  */

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/owasp/esapi/Executor.java

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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/owasp/esapi/tags/EncodeForHTMLTag.java
  
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/owasp/esapi/tags/BaseEncodeTag.java
  
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
jar/org/owasp/esapi/tags/EncodeForVBScriptTag.java
*/opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
jar/org/owasp/esapi/tags/EncodeForHTMLAttributeTag.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * 
 * @created 2007
 */

Found in path(s):
*/opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
jar/org/owasp/esapi/ValidationErrorResponseList.java
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the {@code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * 
 * <p>
 * CAUTION: If this algorithm for computing derived keys from the
 * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * 
 * <p>
 * NOTE: This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class {@code JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 * 
 * @param keyDerivationKey A key used as an input to a key derivation function
 * to derive other keys. This is the key that generally
 * is created using some key generation mechanism such as
 * { @link #generateSecretKey(String, int) }. The
"input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key.
* @param keySize The cipher's key size (in bits) for the {@code keyDerivationKey}.
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* @param purpose The purpose for the derived key. Must be either the
* string "encryption" or "authenticity". Use "encryption" for
* creating a derived key to use for confidentiality, and "authenticity"
* for a derived key to use with a MAC to ensure message authenticity.
* @return The derived {@code SecretKey} to be used according
* to the specified purpose. Note that this serves the same purpose
* as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The {@code keyDerivationKey} has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original {@code UnsupportedEncodingException}
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use {@code KeyDerivationFunction} instead. This method will be removed as of
* ESAPI release 2.3 so if you are using this, please change your code.
*/
/**
**
* Return true if specified cipher mode is one of those specified in the
* [{@code ESAPI.properties} file that supports both confidentiality
* and authenticity (i.e., a "combined cipher mode" as NIST refers
* to it).
* @param cipherMode The specified cipher mode to be used for the encryption
* or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
* of cipher modes supporting both confidentiality and authenticity;
* otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
*/

Found in path(s):
*/opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/crypto/CryptoHelper.java
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/**
* OWASP Enterprise Security API (ESAPI)
* *
* This file is part of the Open Web Application Security Project (OWASP)
The reference implementation sets the work directory, escapes the parameters as per the Codec in use, and then executes the command without using concatenation. The exact, absolute, canonical path of each executable must be listed as an approved executable in the ESAPI properties. The executable must also exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if you are going to invoke this interface with confidential information.

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* @author Rogan Dawes<a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
 */

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/LogFactory.java

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/**
 * This methods adds a provider to the { @code SecurityManager}
 * either by some generic name or by the class name.
 * </p>
 * The following generic JCE provider names are built-in:
 * <ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)</li>
 * <li>ABA</li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so
 * it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore,
 * the Cryptix JCE jars likely will not work as the Cryptix code signing
 * certificate has expired as of August 28, 2009. (This likely is true
 * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
 * provider is no longer offered as free, open source. It is not a
 * commercial product. See [ @link "http://jce.iaik.tugraz.at/" ] for
 * details. While some older versions were offered free, it is not clear
 * whether the accompanying license still allows you to use it, and if
 * it does, whether or not the code signing certificate used to sign
 * their JCE jar(s) has expired are not. Therefore, if you are looking
 * for a FOSS alternative to SunJCE, Bouncy Castle
 * ([@link "http://www.bouncycastle.org/" ] is probably your best bet. The
 * BC provider does support many of the "combined cipher modes" that provide
* both confidentiality and authenticity. (See the {@code ESAPI.properties}
* property {@code Encryptor.cipher_modes.combined_modes} for details.)
* </p><p>
* For those working in the U.S. federal government, it should be noted
* that <i>none</i> of the providers listed here are considered validated
* by NIST's Cryptographic Module Validation Program and are therefore
* <b>not</b> considered FIPS 140-2 compliant. There are a few approved
* JCE compatible Java libraries that are on NIST's CMVP list, but this
* list changes constantly so they are not listed here. For further details
* on NIST's CMVP, see
* {@link "http://csrc.nist.gov/groups/STM/cmvp/index.html"}.
* </p><p>
* Finally, if you wish to use some other JCE provider not recognized above,
* you must specify the provider's fully-qualified class name (which in
* turn must have a public, no argument constructor).
* </p><p>
* The application must be given the {@code SecurityPermission} with a
* value of {@code insertProvider.&lt;provider_name&gt;} (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* </p><p>
* @param algProvider Name of the JCE algorithm provider. If the name
* contains a ".", this is interpreted as the name
* of a {@code java.security.Provider} class name.
* @param pos The preference position (starting at 1) that the
* caller would like for this provider. If you wish
* for it to be installed as the <i>last</i> provider
* (as of the time of this call), set {@code pos} to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the {@code SecurityManager} or
* any other reason for failure.
*/

Found in path(s):
* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-
jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
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* @author Arshan Dabirsiagh <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
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 * @created 2017
 *
 * @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
 * href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
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* /opt/cola/permits/1136636081_1613819076.15/0/esapi-2-2-0-0-sources-4-jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
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/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
* @param permission a representation of the permission object as supplied by the
* expression system. Not null.
* @return true if the permission is granted, false otherwise
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* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1.jar/org/springframework/security/access/prepost/PreFilter.java
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/**
 * Determines if the [@link #getAuthentication()] has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the [@link #getAuthentication()], else
 * false
 */

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* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-
jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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*
* Reviews the `<code>Object</code>` returned from a secure object invocation, being able to
* modify the `<code>Object</code>` or throw an [@link AccessDeniedException](#).
* `<p>`
* Typically used to ensure the principal is permitted to access the domain object
* instance returned by a service layer bean. Can also be used to mutate the domain object
* instance so the principal is only able to access authorised bean properties or
  * `<code>Collection</code>` elements.
* `<p>`
* Special consideration should be given to using an `<code>AfterInvocationManager</code>`
* on bean methods that modify a database. Typically an
  * `<code>AfterInvocationManager</code>` is used with read-only methods, such as
  * `<code>public DomainObject getById(id)</code>`. If used with methods that modify a
  * database, a transaction manager should be used to ensure any
  * `<code>AccessDeniedException</code>` will cause a rollback of the changes made by the
  * transaction.
* `<p>`
* `<author>Ben Alex</author>`
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* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-jar/org/springframework/security/access/annotation/Secured.java
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* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-jar/org/springframework/security/access/SecurityMetadataSource.java
* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java
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* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-jar/org/springframework/security/authentication/encoding/PasswordEncoder.java
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* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-jar/org/springframework/security/access/intercept/RunAsUserToken.java
* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-jar/org/springframework/security/core/session/SessionRegistry.java
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* /opt/ws_local/PERMITS_SQL/1085366053_1598962860.96/0/spring-security-core-4-2-9-release-sources-1-jar/org/springframework/security/access/AccessDeniedException.java
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* *
* @author Ben Alex
* @since 2.0.1
*/

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Build-Jdk: 1.7.0_72
Specification-Title: BPM Support
Specification-Version: 3.6.1
Specification-Vendor: MuleSoft, Inc.
Implementation-Title: BPM Support
Implementation-Version: 3.6.1
Implementation-Vendor-Id: org.mule.modules
Implementation-Vendor: MuleSoft, Inc.
Build-Date: 2015-Feb-13 12:44:27
Build-Revision: b795785f
Description: Mule ESB and Integration Platform
Dev-List-Email: mule-esb@mulesoft.com
License: CPAL v1.0 http://www.mulesoft.com/CPAL/
More-Info: For more information go to http://www.mulesoft.org
Product-Url: http://www.mulesoft.org
Recommended-Jdks: [1.7.0_60,1.8)
Support: Get commercial support: http://www.mulesoft.com/support
Supported-Jdks: [1.7.0.1.8)
Vendor-Url: http://www.mulesoft.com

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* /opt/ws_local/PERMITS_SQL/1025582758_1594406243.65/0/mule-module-bpm-3-6-1-jar/META-INF/MANIFEST.MF

1.547 antisamy 1.5.3

1.548 syndication 0.9
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* /opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1.jar/org/springframework/transaction/aspectj/AbstractTransactionAspect.aj

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*/opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1-jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
*/opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1-jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj
*/opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1-jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
*/opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1-jar/org/springframework/beans.factory/aspectj/AbstractDependencyInjectionAspect.aj
*/opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1-jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj
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* /opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1-
  jar/org/springframework/context/annotation/aspectj/EnableSpringConfigured.java

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* /opt/cola/permits/1135840324_1613613084.97/0/spring-aspects-4-3-29-release-sources-1-
  jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
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  jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java

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1.550 string-template 3.2

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    */
    package org.antlr.stringtemplate.language;
    import org.antlr.stringtemplate.*;
    import java.util.*;
    }

    /** Match an ST group interface. Just a list of template names with args.
    * Here is a sample interface file:
    *
    *interface nfa;
    *nfa(states,edges);
    *optional state(name);
    */
    class InterfaceParser extends Parser;
options {
    k=3;
}

protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
    if ( groupI!=null ) {
        groupI.error("template group interface parse error", e);
    } else {
        System.err.println("template group interface parse error: "+e);
        e.printStackTrace(System.err);
    }
}

groupInterface[StringTemplateGroupInterface groupI] {
    this.groupI = groupI;
    :
        "interface" name:ID {groupI.setName(name.getText());} SEMI
        ( template[groupI] )+
        ;
}

template[StringTemplateGroupInterface groupI] {
    LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
    String templateName=null;
}

    : (opt:"optional")? name:ID LPAREN (formalArgs=args)? RPAREN SEMI
        { templateName = name.getText();
            groupI.defineTemplate(templateName, formalArgs, opt!=null);
        }
    ;

args returns [LinkedHashMap args=new LinkedHashMap()]
    : a:ID {args.put(a.getText(), new FormalArgument(a.getText()));}
        ( COMMA b:ID {args.put(b.getText(), new FormalArgument(b.getText()));} )* 
    ;

class InterfaceLexer extends Lexer;

options {
    k=2;
    charVocabulary = \u0000..\uFFFF;
ID: ('a'..'z'|'A'..'Z'|'\_') ('a'..'z'|'A'..'Z'|'0'..'9'|'\_')*

LPAREN: '(' ;
RPAREN: ')';
COMMA: ',' ;
SEMI: ';';
COLON: ':' ;

// Single-line comments
SL_COMMENT
  : "//" 
    (~('n'|'\r'))* (('r')? 'n')?
    { $setType(Token.SKIP); newline(); } 
  ;

// multiple-line comments
ML_COMMENT
  : "/*" 
    ( options { 
        greedy=false;
    } 
    : ('r')? 'n' { newline(); } 
    | . 
    )*/
    { $setType(Token.SKIP); } 
  ;

// Whitespace -- ignored
WS : ( ' ' 
    | 't' 
    | 'f' 
    | ('r')? 'n' { newline(); } 
    )+
    { $setType(Token.SKIP); } 
  ;

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* /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2.jar/org/antlr/stringtemplate/language/AngleBracketTemplateLexer.java
* /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2.jar/org/antlr/stringtemplate/language/DefaultTemplateLexer.java
* /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2.jar/org/antlr/stringtemplate/language/ActionEvaluatorTokenTypes.java
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jar/org/antlr/stringtemplate/language/ActionLexer.java
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jar/org/antlr/stringtemplate/language/GroupParser.java
* /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2-
jar/org/antlr/stringtemplate/language/GroupLexer.java
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/*** Match a group of template definitions beginning
 * with a group name declaration.  Templates are enclosed
* in double-quotes or <<...>> quotes for multi-line templates.
* Template names have arg lists that indicate the cardinality
* of the attribute: present, optional, zero-or-more, one-or-more.
* Here is a sample group file:

```plaintext
group nfa;

// an NFA has edges and states
nfa(states,edges) ::= <<
digraph NFA {
  rankdir=LR;
  <states; separator="\n">
  <edges; separator="\n">
}
>>

state(name) ::= "node [shape = circle]; <name>;"

*/
class GroupParser extends Parser;

options {
  k=3;
}

g[GroupParser g] {
  this.group = g;
}:
"group" name:ID {g.setName(name.getText());}
(COLON s:ID {g.setSuperGroup(s.getText());})?
("implements" i:ID {g.implementInterface(i.getText());}
  (COMMA i2:ID {g.implementInterface(i2.getText());})*)?
```
template[templateString templateGroup g]
{
    Map formalArgs = null;
    StringTemplate st = null;
    boolean ignore = false;
    String templateName=null;
    int line = LT(1).getLine();
}

(AT scope:ID DOT region:ID
{
    // @scope.region() ::= "..."
    StringTemplate scopeST = g.lookupTemplate(scope.getText());
    if ( scopeST==null ) {
        g.error("group "+g.getName()+" line "+line+: reference to region within undefined template: "+scope.getText()+"."+region.getText());
        err=true;
    }
    if ( !scopeST.containsRegionName(region.getText()) ) {
        g.error("group "+g.getName()+" line "+line+: template "+scope.getText()+" has no region called "+region.getText());
        err=true;
    }
    if ( err ) {
        st = new StringTemplate();
    } else {
        st = g.defineRegionTemplate(scope.getText(),
             region.getText(),
             null,
             StringTemplate.REGION_EXPLICIT);
    }
    

    bool err = false;
    if ( g.isDefinedInThisGroup(templateName) ) {
        g.error("group "+g.getName()+" line "+line+: redefinition of template region: @"+scope.getText()+"."+region.getText());
        st = new StringTemplate(); // create bogus template to fill in
    }
}

|name:ID {templateName = name.getText();}
|
if ( g.isDefinedInThisGroup(templateName) ) {

g.error(“redefinition of template: “+templateName);
st = new StringTemplate(); // create bogus template to fill in
}
else {
st = g.defineTemplate(templateName, null);
}
}

if ( st!=null ) {st.setGroupFileLine(line);}  
LPAREN  
(args[st][ st.defineEmptyFormalArgumentList();})  
RPAREN  
DEFINED_TO_BE  
(t:STRING  {st.setTemplate(t.getText());}  
|bt:BIGSTRING {st.setTemplate(bt.getText());}  
)

| alias:ID DEFINED_TO_BE target:ID 
{g.defineTemplateAlias(alias.getText(), target.getText());}  
: args[StringTemplate st]
 :arg[st] ( COMMA arg[st] )*  
:
arg[StringTemplate st]
{  
StringTemplate defaultValue = null;
}
:name:ID  
|ASSIGN s:STRING
{
defaultValue=new StringTemplate("$_val_$");
defaultValue.setAttribute("_val_", s.getText());
defaultValue.defineFormalArgument("_val_");
defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
}
|ASSIGN bs:ANONYMOUS_TEMPLATE
{
defaultValue=new StringTemplate(st.getGroup(), bs.getText());
defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
}
)?  
{st.defineFormalArgument(name.getText(), defaultValue);}
:

/*  
suffix returns [int cardinality=FormalArgument.REQUIRED]
mapdef[StringTemplateGroup g]
{
Map m=null;
}

        : name:ID
        DEFINED_TO_BE m=map
        {
            if ( g.getMap(name.getText())!=null ) {
                g.error("redefinition of map: "+name.getText());
            }
            else if ( g.isDefinedInThisGroup(name.getText()) ) {
                g.error("redefinition of template as map: "+name.getText());
            }
            else {
                g.defineMap(name.getText(), m);
            }
        }

map returns [Map mapping=new HashMap()]

        : LBRACK mapPairs[mapping] RBRACK

mapPairs [Map mapping]
    : keyValuePair[mapping] (COMMA keyValuePair[mapping])*
        (COMMA defaultValuePair[mapping])?
        [ defaultValuePair[mapping] ]

defaultValuePair[Map mapping]
{
StringTemplate v = null;
}

        : "default" COLON v=keyValue
            {mapping.put(ASExpr.DEFAULT_MAP_VALUE_NAME, v);}
keyValue returns [StringTemplate value=null]
\s1:BIGSTRING\{\nvalue = new StringTemplate(group,s1.getText());\n\}
\s2:STRING\{\nvalue = new StringTemplate(group,s2.getText());\n\}
|k:ID\{\n\k.getText().equals("key")?\n\{\nvalue = ASTExpr.MAP_KEY_VALUE;\n\}\n\{\nvalue = null;\n\}\n\}

class GroupLexer extends Lexer;

options {\nk=2;\ncharVocabulary = \u0000..\uFFFE;\ntestLiterals=false;\n}

ID

options {\ntestLiterals=true;\n}
\("a"..'z'\|'A'..'Z'|'_'\|'0'..'9'|'-'|'_'\)*

STRING

:\"\"\("\"|\"~\"|~\"\")\"\"

BIGSTRING

:\"<<\"\n\(options {greedy=true;};\(\v'\)?\n\{newline();\}? // consume 1st \n\options {greedy=false;} // stop when you see the >>\n\{LA(3)=='>'&&LA(4)=='>'}? v! '\n'! {newline();} // kill last \v\n\{LA(2)=='>'&&LA(3)=='>'}? v! '\n'! {newline();} // kill last \v\n\{v!'\n'! {newline();} // else keep
\v!' /> // /> escape
\})*
\">>"!

ANONYMOUS_TEMPLATE

{\nList args=null;\nStringTemplateToken t = null;\n}
Open Source Used In Cisco Vision Dynamic Signage Director 6.4  6550

// Single-line comments
SL_COMMENT
: "//"
    (~("\n|\")*)* (("\r"| "\n")?
    {setType(Token.SKIP); newline();}
)
;

// multiple-line comments
ML_COMMENT
: "/*"
    (options {
        greedy=false;
    }
    : ("\r")? "\n" {newline();}
    |
    )*
    ".*/"
    {setType(Token.SKIP);}
)
;

// Whitespace -- ignored
WS : (  ")

// Options
options { greedy=false; } // stop when you see the >>
;

(':')? 'w' {newline();} // else keep

["!
|)

"R"

\} escape

|.

)*

')!'

;

AT: '@' ;
LPAREN: '(' ;
RPAREN: ')' ;
LBRACK: '[' ;
RBRACK: ']' ;
COMMA: ',' ;
DOT: '.' ;
DEFINED_TO_BE: "::=" ;
SEMI: ';' ;
COLON: ':' ;
STAR: '*' ;
PLUS: '+' ;
ASSIGN: '=' ;
OPTIONAL: '?' ;

// Single-line comments
SL_COMMENT
: "//"
    (~("\n|\")*)* (("\r"| "\n")?
    {setType(Token.SKIP); newline();}
)
;

// multiple-line comments
ML_COMMENT
: "/*"
    (options {
        greedy=false;
    }
    : ("\r")? "\n" {newline();}
    |
    )*
    ".*/"
    {setType(Token.SKIP);}
)
;

// Whitespace -- ignored
WS : (  ")

// Options
options { greedy=false; } // stop when you see the >>
;

(':')? 'w' {newline();} // else keep

["!
|)

"R"

\} escape

|.

)*

')!'

;
header {

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;
}

/** Break up an input text stream into chunks of either plain text
 * or template actions in "<...>". Treat IF and ENDIF tokens
 * specially.
 */
class AngleBracketTemplateLexer extends Lexer;

options {
    importVocab=TemplateParser;
    k=7; // see "<endif>
    charVocabulary = 'u0001'..'uFFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public AngleBracketTemplateLexer(StringTemplate self, Reader r) { 
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) { 
    self.error("<...> chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException { 
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&& 
        LA(i+5)=='>';
}

protected boolean upcomingENDIF(int i) throws CharStreamException { 
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&& 
        LA(i+5)=='>';
}

protected boolean upcomingAtEND(int i) throws CharStreamException { 
    return LA(i)=='<'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='>';
}

protected boolean upcomingNewline(int i) throws CharStreamException { 
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL
    :   {LA(1)!=''&&LA(1)!='
'}? 
        ( options { generateAmbigWarnings=false; } 
        [ 
            int loopStartIndex=text.length();
            int col=getColumn();
        ]
        )

/*
 */
: '\!' '<' // allow escaped delimiter
| '\!' '>'
| '\!' '\W' // always replace \ with \
| '\W' '~('<'|'>')' // otherwise ignore escape char
| ind:INDENT
|
| if ( col==1 && LA(1)=='<' ) {
| // store indent in ASTExpr not in a literal
| currentIndent=ind.getText();
| text.setLength(loopStartIndex); // reset length to wack text
| }
| else currentIndent=null;
|
| '|'~('<'|'>')
|)+
|{if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent?
|
| protected
| INDENT
| : ( options {greedy=true;}: ' ' | '\t')+
|
| ;

| NEWLINE
| :('\v'? '\n' {newline(); currentIndent=null;})
| ;

| ACTION
| options {
| generateAmbigWarnings=false; // <EXPR> is ambig with <!..!>
| }
|
| int startCol = getColumn();
|
| : LINE_BREAK {$setType(Token.SKIP);}
| | // Match escapes not in a string like <\u\u00005>
| StringBuffer buf = new StringBuffer(); char uc = 'u0000';
| '\!' (uc=ESC_CHAR {buf.append(uc);})+>'!
| {$setText(buf.toString()); $setType(LITERAL);} |
| COMMENT {$setType(Token.SKIP);} |
| |
| options {
| generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
| }
|
| :<! "if" ( '!'|)* (" IF_EXPR ") '>'! {$setType(TemplateParser.IF);}
| ( '\v'?) '\n'! {newline();}? // ignore any newline right after an IF
| <! "elseif" ( '!'|)* (" IF_EXPR ") '>'! {$setType(TemplateParser.ELSEIF);}
| ( '\v'?) '\n'! {newline();}? // ignore any newline right after an IF
'| '<'! "else" '>'! {$setType(TemplateParser.ELSE);}   // ignore any newline right after an ELSE
'| '<'! "endif" '>'! {$setType(TemplateParser.ENDIF);} // ignore after ENDIF if on line by itself

'| // match <@foo> => foo
   // match <foo>...<@end> => foo::=...
'<! '@! (~('>'|'('))+$('>')! {$setType(TemplateParser.REGION_REF);}   // match <@foo()> => foo
'<! '!' {$setType(TemplateParser.REGION_DEF); String t=$getText;
$setText(t+":=");}
( options {greedy=true;} : (''!)? '
'! {newline();})?
{boolean atLeft = false;}
( options {greedy=true;} // handle greedy=false with predicate
 : !(upcomingAtEND(1)||upcomingNewline(1)&&upcomingAtEND(2)))?
(("r")! "un"! {newline(); atLeft = true;})
|. {atLeft = false;}
)+
( ('r')! "un"! {newline(); atLeft = true; })?
"<@end>"!
|. {self.error("missing region "+t+" <@end> tag");}
( {atLeft}? ('r')! "un"! {newline();})?
)

'| '<!' EXPR '>'! )
}

ChunkToken t = new ChunkToken(_ttype, $getText, currentIndent);
$setToken(t);
)
|

protected
EXPR:  ( ESC
| ('r')! "un"! {newline();}
| SUBTEMPLATE
| ('='|'+') TEMPLATE
| ('='|'+') SUBTEMPLATE
| ('='|'+') ~(""|'<'|'{')
| ~'>'
)+
protected
TEMPLATE
:"" ( ESC | «" )+ «" /*
|"<" /*
 (options {greedy=true;}:<!"!)?\n! {newline();}) // consume 1st \n (options {greedy=false;} // stop when you see the >>
 :[LA(3)==">'&&&LA(4)=="।'? '०! \n' {newline();} // kill last \n
 |[LA(2)==">'&&&LA(3)=='।'? \n' {newline();} // kill last \n
 |\n')? '०' {newline();} // else keep
 |
 )
 */
 ">>>"
 ;

protected
IF_EXPR:( ESC
 |	('०)? '०' {newline();}
 |	SUBTEMPLATE
 |	NESTED_PARENS
 |	~')
 )+
 ;

protected
ESC_CHAR returns [char uc='a0000']
:"
" { uc = '०';}
 |"०"! { uc = '०';}
 |"०"! { uc = '०';}
 |"०"! { uc = '०';}
 |"०"! a:HEX! b:HEX! c:HEX! d:HEX!
{ uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}
 ;

// just used to skip stuff (not part of unicode escape stuff)
protected
ESC : '०'. // ('०'>['०']\n't'\n'०';\n')\n"
;

protected
HEX:'०'..'४'\n'०'..'४'
;

protected
SUBTEMPLATE
: '!=(SUBTEMPLATE|ESC|¬')* ')
;

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protected
NESTED_PARENS
    : ' ' (options {greedy=false;}:NESTED_PARENS[ESC~'])'+ ' ' ' ' ' '
    ;

protected
COMMENT
{
    int startCol = getColumn();
}
    : "<!
(options {greedy=false;}
    :('
' )? 'n' {newline();}
    |
    )*
    "!>" ( {startCol==1}? ('r')? 'n' {newline();} )?
    ;

protected
LINE_BREAK
    : "<\\>" (INDENT)? ('r')? 'n' {newline();} (INDENT)?
    ;

Found in path(s):
    * /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2-
jar/org/antlr/stringtemplate/language/angle.bracket.template.g

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* /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2-jar/org/antlr/stringtemplate/misc/JTreeStringTemplateModel.java
* /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2-jar/org/antlr/stringtemplate/misc/StringTemplateTreeView.java
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* /opt/cola/permits/1108612361_1615521195.46/0/stringtemplate-3-2-1-sources-2-
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*/

package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;
}

/** A parser used to break up a single template into chunks, text literals and attribute expressions. */
class TemplateParser extends Parser;
{

protected StringTemplate self;

public void reportError(RecognitionException e) {
    StringTemplateGroup group = self.getGroup();
    if ( group==StringTemplate.defaultGroup ) {
        self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
    } else {
        self.error("template parse error in group "+self.getGroup().getName()+" line "+self.getGroupFileLine()+"; template context is "+self.getEnclosingInstanceStackString(), e);
    }
}

template[StringTemplate self]
{
    this.self = self;
}:
    ( s:LITERAL {self.addChunk(new StringRef(self,s.getText()));}
    | nl:NEWLINE
    { if ( LA(1)!=ELSE && LA(1)!=ENDIF ) {
        self.addChunk(new NewlineRef(self,nl.getText()));
    }
    } | action[self]
action[ StringTemplate self ]
  : a: ACTION
    {
      String indent = ((ChunkToken)a).getIndentation();
      ASTExpr c = self.parseAction(a.getText());
      c.setIndentation(indent);
      self.addChunk(c);
    }

  | i: IF
    {
      ConditionalExpr c = (ConditionalExpr)self.parseAction(i.getText());
      // create and precompile the subtemplate
      StringTemplate subtemplate =
        new StringTemplate(self.getGroup(), null);
      subtemplate.setEnclosingInstance(self);
      subtemplate.setName(i.getText()+"_subtemplate");
      self.addChunk(c);
    }

    template[subtemplate] { if (c!=null) c.setSubtemplate(subtemplate); }

    ( ei: ELSEIF
      {
        ASTExpr ec = self.parseAction(ei.getText());
        // create and precompile the subtemplate
        StringTemplate elseIfSubtemplate =
          new StringTemplate(self.getGroup(), null);
        elseIfSubtemplate.setEnclosingInstance(self);
        elseIfSubtemplate.setName(ei.getText()+"_subtemplate");
      }

      template[elseIfSubtemplate]

      { if (c!=null) c.addElseIfSubtemplate(ec, elseIfSubtemplate); }
    )*

  ( ELSE
    {
      // create and precompile the subtemplate
      StringTemplate elseSubtemplate =
        new StringTemplate(self.getGroup(), null);
      elseSubtemplate.setEnclosingInstance(self);
      elseSubtemplate.setName("else_subtemplate");
    }

    template[elseSubtemplate]
template[elseSubtemplate]
    {if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}
)

ENDIF

|rr:REGION_REF |
{
    // define implicit template and
    // convert <@r()> to <region__enclosingTemplate__r()>
    String regionName = rr.getText();
    String mangledRef = null;
    boolean err = false;
    // watch out for <@super.r()>; that does NOT def implicit region
    // convert to <super.region__enclosingTemplate__r()>
    if ( regionName.startsWith("super.") ) {
        //System.out.println("super region ref "+regionName);
        String regionRef =
            regionName.substring("super.".length(),regionName.length());
        StringTemplate scopeST = self.getGroup().lookupTemplate(templateScope);
        if ( scopeST==null ) {
            self.getGroup().error("reference to region within undefined template: "+
                templateScope);
            err=true;
        }
        if ( !scopeST.containsRegionName(regionRef) ) {
            self.getGroup().error("template "+templateScope+" has no region called "+
                regionRef);
            err=true;
        }
    }
    else {
        mangledRef =
            self.getGroup().getMangledRegionName(templateScope,regionRef);
        mangledRef = "super."+mangledRef;
    }
    if ( !err ) {
        // treat as regular action: mangled template include
String indent = ((ChunkToken)rr).getIndentation();
ASTExpr c = self.parseAction(mangledRef+"()");
c.setIndentation(indent);
self.addChunk(c);
}
}

|rd:REGION_DEF|
{
String combinedNameTemplateStr = rd.getText();
int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=");
if (indexOfDefSymbol>=1) {
String regionName = combinedNameTemplateStr.substring(0,indexOfDefSymbol);
String template =
combinedNameTemplateStr.substring(indexOfDefSymbol+3,
combinedNameTemplateStr.length());
StringTemplate regionST =
    self.getGroup().defineRegionTemplate(self,
    regionName,
    template,
    StringTemplate.REGION_EMBEDDED);
// treat as regular action: mangled template include
String indent = ((ChunkToken)rd).getIndentation();
ASTExpr c = self.parseAction(regionST.getName()+"()");
c.setIndentation(indent);
self.addChunk(c);
} else {
    self.error("embedded region definition screwed up");
}
}

/** Break up an input text stream into chunks of either plain text
 + or template actions in "$...$". Treat IF and ENDIF tokens
 + specially.
 */
class DefaultTemplateLexer extends Lexer;

options {
    k=7; // see "$endif$"
    charVocabulary = "\u0001..\uFFFE";
}

protected String currentIndent = null;
protected StringTemplate self;
public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("$...$ chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='e'&&LA(i+4)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&LA(i+5)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='$';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL : {LA(1)!=''&&LA(1)!='
'}?(options { generateAmbigWarnings=false;}{
    int loopStartIndex=text.length();
    int col=getColumn();
    }
    : '\'! '$'  // allow escaped delimiter
| '\'! '\' // always replace \ with 
| '\' ~'$'  // otherwise ignore escape char
| ind:INDENT
    {
    if ( col==1 && LA(1)=='$' ) {
        // store indent in ASTExpr not in a literal
        currentIndent=ind.getText();
        text.setLength(loopStartIndex); // reset length to wack text
    }
    else currentIndent=null;
    }
| ~('~$'|'`
')
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also 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.

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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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TERMS AND CONDITIONS

0. Definitions.

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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.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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   b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.553 jackson 2.10.4
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1.557 grep 2.20-3.el7

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jar/org/springframework/expression/spel/ast/Operator.java
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jar/org/springframework/expression/spel/ast/AstUtils.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/BeanReference.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/BooleanTypedValue.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/standard/Token.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/BeanResolver.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/TypedValue.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/OpInc.java
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jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/EvaluationException.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-
jar/org/springframework/expression/spel/ast/spelnodeimpl.java
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* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-jar/org/springframework/expression/PropertyAccessor.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1158685111_1619822368.87/0/spring-expression-3-2-10-release-sources-1-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java

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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_SOOPOPTIONS= -Wl,-Bsymbolic 

## Shared object suffix 
SO = so 

## Non-shared intermediate object suffix 
STATIC_O = ao 

## Compilation rules 
%.o$(STATIC_O): $(srcdir)/%.c 
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $< 
%.o$(STATIC_O): $(srcdir)/%.cpp 
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $< 

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

## Dependency rules 

---

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

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

## Versioned libraries rules

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

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

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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Peter Lomdahl, Brad Holian, Shujia Zhou, Niels Jensen, and Tim Germann at Los Alamos National Laboratory were the first users. Patrick Tullmann at the University of Utah suggested the idea of automatic
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Early bug reports and patches:

1.566 libdwarf 20130207-4.el7
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David Anderson: December 2006
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data
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The "Library", below, refers to any such software library or work
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"Source code" for a work means the preferred form of the work for
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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.

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

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

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

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

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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.)
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@c @bye

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<?xml version="1.0" encoding="UTF-8"?>
<interface>
  <!-- interface-requires gtk+ 3.6 -->
  <!-- interface-requires AnacondaWidgets 1.0 -->
  <object class="GtkTextBuffer" id="eulaBuffer">
    <property name="text">The license will go here</property>
  </object>
  <object class="AnacondaSpokeWindow" id="eulaWindow">
    <property name="can_focus">False</property>
    <property name="hexpand">True</property>
    <property name="vexpand">True</property>
    <property name="window_name" translatable="yes">LICENSE INFORMATION</property>
    <signal name="button-clicked" handler="on_back_clicked" swapped="no"/>
    <child internal-child="main_box">
      <object class="GtkBox" id="AnacondaSpokeWindow-main_box1">
        <property name="can_focus">False</property>
        <property name="orientation">vertical</property>
        <property name="spacing">6</property>
        <child internal-child="nav_box">
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            <property name="can_focus">False</property>
            <child internal-child="nav_area">
              <object class="GtkGrid" id="AnacondaSpokeWindow-nav_area1">
                <property name="can_focus">False</property>
                <property name="margin_left">6</property>
                <property name="margin_right">6</property>
                <property name="margin_top">6</property>
              </object>
            </child>
          </object>
        </child>
      </object>
    </child>
  </object>
</interface>
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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
September 29, 2017

1.576 security-core 3.1.0.RELEASE

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 * Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
 * See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 * <p>
 * For internal use only.
 *
 * @author Luke Taylor
 * @since 3.0
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/**
 * A token issued by {@link TokenService}.
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that
 * they can serve as identifying a unique user session. Implementations of {@link TokenService}
 * are free to use encryption or encoding strategies of their choice. It is strongly recommended that
 * keys are of sufficient length to balance safety against persistence cost. In relation to persistence
 * cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
 */

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/**
 *
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be checked. May be null
 * in which case implementations should return false, as the null condition can be checked explicitly
 * in the expression.
 * @param permission a representation of the permission object as supplied by the expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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* /opt/ws_local/PERMITS_SQL/1071051121_1601366587.64/0/spring-security-core-3-1-0-release-sources-2.jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
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/**
* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.

* @author Alan Stewart

*/

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*
/**
* Reviews the <code>Object</code> returned from a secure object invocation,
* being able to modify the <code>Object</code> or throw an {@link AccessDeniedException}.
* <p>
* Typically used to ensure the principal is permitted to access the domain
* object instance returned by a service layer bean. Can also be used to
* mutate the domain object instance so the principal is only able to access
* authorised bean properties or <code>Collection</code> elements.
* <p>
* Special consideration should be given to using an
* <code>AfterInvocationManager</code> on bean methods that modify a database.
* Typically an <code>AfterInvocationManager</code> is used with read-only
* methods, such as <code>public DomainObject getById(id)</code>. If used with
* methods that modify a database, a transaction manager should be used to
* ensure any <code>AccessDeniedException</code> will cause a rollback of the
* changes made by the transaction.
* </p>
* 
* @author Ben Alex
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jar/org/springframework/orm/jdo/TransactionAwarePersistenceManagerFactoryProxy.java
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jar/org/springframework/orm/jdo/PersistenceManagerFactoryUtils.java
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* /opt/cola/permits/1135947480_1613639089.52/0/spring-orm-4-3-29-release-sources-1-jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java
* /opt/cola/permits/1135947480_1613639089.52/0/spring-orm-4-3-29-release-sources-1-jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
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* /opt/cola/permits/1135947480_1613639089.52/0/spring-orm-4-3-29-release-sources-1-jar/org/springframework/orm/jpa/persistenceunit/ClassFileTransformerAdapter.java
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jar/org/springframework/orm/hibernate4/HibernateQueryException.java
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jar/org/springframework/orm/jdo/DoOptimisticLockingFailureException.java
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jar/org/springframework/orm/hibernate3/support/BlobStringType.java
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jar/org/springframework/orm/jdo/DoUsageException.java
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jar/org/springframework/orm/jpa/EntityManagerProxy.java
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/**
* Create a transactional EntityManager proxy for the given EntityManagerFactory.
* @param emf the EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the
*    @code createEntityManager() call (may be @code null))
* @param entityManagerInterfaces the interfaces to be implemented by the
*    EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transactional EntityManager proxy
*/

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1.587 libxt 1.1.5-3.el7

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1.588 vim 7.4.160-1.el7

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*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY

*iccf*  *ICCF*  
Vim is Charityware. You can use and copy it as much as you like, but you are 
couraged to make a donation for needy children in Uganda. Please see |kcc| 
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for 
features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see 
[manual-copyright].

=== begin of license ===
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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change
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anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre**kcc** *Kibaale*  *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a
production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p. o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:

- Postbank, account 4548774
- Swift code: INGB NL 2A
- IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

- Rabobank Lisse, account 3765.05.117
- Swift code: RABO NL 2U
- under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruehihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

```vim
" Vim syntax file
" Language: Software Distributor product specification file
" (POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

if version < 600
 " Remove any old syntax stuff hanging around
 syn clear
elsif exists("b:current_syntax")
 finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString   start=+"+ skip=+"+ end=+"+ contained

syn match  psfObjTag    "\([-+A-Z0-9a-z]+\)+(\([-+A-Z0-9a-z]+\))" contained
```
Some of the attributes covered by attUnquotString and attQuotString:
- architecture
category_tag
copyright
date
description
directory
file_permissions
install_source
install_type
location
machine_type
mod_date
number
os_name
os_release
os_version
pose_as_os_name
pose_as_os_release
readme
revision
share_link
title
vendor_tag

These regions are defined in attempt to do syntax checking for some of the attributes.

- These regions are defined in attempt to do syntax checking for some of the attributes.

- architecture
category_tag
copyright
date
description
directory
file_permissions
install_source
install_type
location
machine_type
mod_date
number
os_name
os_release
os_version
pose_as_os_name
pose_as_os_release
readme
revision
share_link
title
vendor_tag
contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*(state)\s\+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*(patch_state)\s\+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib start="^\s*(is_kernel|is_locatable|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s\+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment "#.*$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
  let did_psf_syntax_inits = 1
  command -nargs=+ HiLink hi link <args>
else
  command -nargs=+ HiLink hi def link <args>
endif
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
/*
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 *
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1.597 shared-ldap-constants 0.9.7

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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <sBJ@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswEEP
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
   (driver 14 reference clocks), STREAMS modules for PARSE, support
   scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36] George Lindholm <lindholm@cs.ucc.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasoportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver  
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver  
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure  
makeover, various other bits (see the ChangeLog)  
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57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing  
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58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic  
TrueTime clock driver  
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and  
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1.602 harfbuzz 0.9.36-1.el7

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1.603 libjpeg 6b

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DOCUMENTATION ROADMAP
=====================This file contains the following sections:

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

Other documentation files in the distribution are:

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

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.
Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

OVERVIEW
========

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

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

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

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

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

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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

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups.


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

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

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

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

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

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

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a
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
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
1.604 batik-util 1.7

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

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Automated Testing Framework

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6,
Open Source Used In Cisco Vision Dynamic Signage Director 6.4

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.

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<!--- Generate ISC copyright comments from Docbook copyright metadata. --->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:call-template>
</xsl:template>

</xsl:stylesheet>
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1.610 patch 2.7.1-12.el7_7

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From 74331750f118690ca3c375e52b10272b992320e7 Mon Sep 17 00:00:00 2001
From: Andrea Claudi <aclaudi@redhat.com>
Date: Mon, 29 Apr 2019 20:09:13 +0200
Subject: [PATCH] ip{6, }tunnel: Avoid copying user-supplied interface name around

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1465646
Upstream Status: iproute2.git commit 26111ab1dba82
commit 26111ab1dba820421ccaf283ac097a79b95023a2
Author: Phil Sutter <phil@nwl.cc>
Date:   Mon Oct 2 13:46:35 2017 +0200

ip{6, }tunnel: Avoid copying user-supplied interface name around

In both files' parse_args() functions as well as in iptunnel's do_prl() and do_6rd() functions, a user-supplied 'dev' parameter is uselessly copied into a temporary buffer before passing it to ll_name_to_index() or copying into a struct ifreq. Avoid this by just caching the argv pointer value until the later lookup/strcpy.

Signed-off-by: Phil Sutter <phil@nwl.cc>

---
ip/ip6tunnel.c |  6 +++---
ip/ip6tunnel.c | 22 +++++++++-------------
2 files changed, 12 insertions(+), 16 deletions(-)
diff --git a/ip/ip6tunnel.c b/ip/ip6tunnel.c
index b4a7def144226..c12d700e74189 100644
--- a/ip/ip6tunnel.c
+++ b/ip/ip6tunnel.c
@@ -136,7 +136,7 @@ static void print_tunnel(struct ip6_tnl_parm2 *p)
 stu...
int count = 0;
-const char *medium = NULL;

while (argc > 0) {
    if (strcmp(*argv, "mode") == 0) {
@@ -180,7 +180,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
memcpy(&p->laddr, &laddr.data, sizeof(p->laddr));
    } else if (strcmp(*argv, "dev") == 0) {
NEXT_ARG();
-    strncpy(medium, *argv, IFNAMSIZ - 1);
+    medium = *argv;
    } else if (strcmp(*argv, "encaplimit") == 0) {
NEXT_ARG();
if (strcmp(*argv, "none") == 0) {
@@ -285,7 +285,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
    count++;
    argc--; argv++;
}
-if (medium[0]) {
+if (medium) {
    p->link = ll_name_to_index(medium);
    if (p->link == 0) {
fprintf(stderr, "Cannot find device \"%
    "s\"\"n", medium);
    diff --git a/ip/iptunnel.c b/ip/iptunnel.c
index 105d0f5576f1a..0acfd0793d3cd 100644
--- a/ip/iptunnel.c
+++ b/ip/iptunnel.c
@@ -60,7 +60,7 @@ static void set_tunnel_proto(struct ip_tunnel_parm *p, int proto)
static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
{
    int count = 0;
-const char *medium = { };
+const char *medium = NULL;
    int isatap = 0;

    memset(p, 0, sizeof(*p));
@@ -139,7 +139,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
p->iph.saddr = htonl(INADDR_ANY);
    } else if (strcmp(*argv, "dev") == 0) {
NEXT_ARG();
-    strncpy(medium, *argv, IFNAMSIZ - 1);
+    medium = *argv;
    } else if (strcmp(*argv, "ttl") == 0 ||
-strcmp(*argv, "hoplimit") == 0 ||
-strcmp(*argv, "hlim") == 0) {
@@ -216,7 +216,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
if (medium[0]) {
  p->link = ll_name_to_index(medium);
if (p->link == 0) {
    fprintf(stderr, "Cannot find device \"%s\n\n", medium);
    @@ -465,9 +465,8 @@ static int do_prl(int argc, char **argv)
    
    struct ip_tunnel_prl p = {};
    int count = 0;
    -int devname = 0;
    int cmd = 0;
    -char medium[IFNAMSIZ] = {};
    +const char *medium = NULL;

    while (argc > 0) {
      if (strcmp(*argv, "prl-default") == 0) {
        @@ -488,8 +487,7 @@ static int do_prl(int argc, char **argv)
        count++;
      } else if (strcmp(*argv, "dev") == 0) {
        NEXT_ARG();
        -strncpy(medium, *argv, IFNAMSIZ-1);
        -devname++;
        +medium = *argv;
      } else {
        fprintf(stderr,
            "Invalid PRL parameter \"%s\n\n", *argv);
        @@ -502,7 +500,7 @@ static int do_prl(int argc, char **argv)
        }
      argc--; argv++;
    }
    -if (devname == 0) {
      +if (!medium) {
        fprintf(stderr, "Must specify device\n\n");
        exit(-1);
        }
      @@ -513,9 +511,8 @@ static int do_prl(int argc, char **argv)
      static int do_6rd(int argc, char **argv)
      
      struct ip_tunnel_6rd ip6rd = {};
      -int devname = 0;
      int cmd = 0;
      -char medium[IFNAMSIZ] = {};
      +const char *medium = NULL;
      inet_prefix prefix;


while (argc > 0) {
@@ -537,8 +534,7 @@ static int do_6rd(int argc, char **argv)
    cmd = SIOCDEL6RD;
 } else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
-   strncpy(medium, *argv, IFNAMSIZ-1);
-   devname++;
+   medium = *argv;
 } else {
   fprintf(stderr,
   "Invalid 6RD parameter \"%s\"", *argv);
@@ -546,7 +542,7 @@ static int do_6rd(int argc, char **argv)
   }
   argc--; argv++;
 } -if (devname == 0) {
-   if (!medium) {
+   if (!medium) {
      fprintf(stderr, "Must specify device\n");
      exit(-1);
   }
   --
2.21.0

1.612 jsr250-api 1.0

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1.613 librsvg 2.39.0-1.el7

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: jenkins
Build-Jdk: 1.7.0_72
Specification-Title: Mule Client
Specification-Version: 3.6.1
Specification-Vendor: MuleSoft, Inc.
Implementation-Title: Mule Client
Implementation-Version: 3.6.1
Implementation-Vendor-Id: org.mule.modules
Implementation-Vendor: MuleSoft, Inc.
Build-Date: 2015-Feb-13 12:39:32
Build-Revision: b795785f
Description: Mule ESB and Integration Platform
1.617 trilead-ssh 1.0.0-build221

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

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The primary ANTLR guy:

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1.627 apacheds-utils 1.5.1

1.628 python-dateutil 1.5

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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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| 2.2     | 2.1.1        | 2001         | PSF     | yes         |
| 2.1.2   | 2.1.1        | 2002         | PSF     | yes         |
| 2.1.3   | 2.1.2        | 2002         | PSF     | yes         |
| 2.2.1   | 2.2          | 2002         | PSF     | yes         |
| 2.2.2   | 2.2.1        | 2002         | PSF     | yes         |
| 2.2.3   | 2.2.2        | 2003         | PSF     | yes         |
| 2.3     | 2.2.2        | 2002-2003    | PSF     | yes         |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(??)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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*/

options
{
  STATIC=false;
  UNICODE_INPUT=true;
  // DEBUG_TOKEN_MANAGER=true;
  // DEBUG_PARSER=true;
}

PARSER_BEGIN(FMParser)

package freemarker.core;

import freemarker.template.*;
import freemarker.template.utility.StringUtil;
import freemarker.template.utility.DeepUnwrap;
import java.io.*;
import java.util.*;

/**
 * This class is generated by JavaCC from a grammar file.
 */
public class FMParser {

    // Necessary for adding macros and setting location info.
    Template template;
    private String templateName;

    // variables that keep track of whether we are in a loop or a switch.
    private int loopNesting, switchNesting;
    private boolean inMacro, inFunction, stripWhitespace, stripText;
    private LinkedList escapes = new LinkedList();
    private int contentNesting; // for stripText

    /**
     * Create an FM expression parser using a string.
     */
    static public FMParser createExpressionParser(String s) {
        SimpleCharStream scs = new SimpleCharStream(new StringReader(s), 1, 1, s.length());
        FMParserTokenManager token_source = new FMParserTokenManager(scs);
        token_source.SwitchTo(FMParserConstants.FM_EXPRESSION);
        return new FMParser(token_source);
    }

    /**
     * Constructs a new parser object.
     * @param template The template associated with this parser.
     * @param reader The character stream to use as input
     * @param strictEscapeSyntax Whether FreeMarker directives must start with a #
     */
    public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace) {
        this(reader);
        this.template = template;
        token_source.strictEscapeSyntax = strictEscapeSyntax;
        this.templateName = template != null ? template.getName() : "";
        token_source.templateName = templateName;
        this.stripWhitespace = stripWhitespace;
    }

    public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace, int tagSyntax) {
        this(template, reader, strictEscapeSyntax, stripWhitespace);
        switch (tagSyntax) {
            case Configuration.AUTO_DETECT_TAG_SYNTAX :
                token_source.autodetectTagSyntax = true;
            break;
    }
break;
case Configuration.ANGLE_BRACKET_TAG_SYNTAX :
    token_source.altDirectiveSyntax = false;
    break;
case Configuration.SQUARE_BRACKET_TAG_SYNTAX :
    token_source.altDirectiveSyntax = true;
    break;
default : throw new IllegalArgumentException("Illegal argument for tagSyntax");
}
}

public FMParser(String template) {
    this(null, new StringReader(template), true, true);
}

private String getErrorStart(Token t) {
    return "Error in template: " + template.getName()
    + " on line " + t.beginLine + ", column " + t.beginColumn;
}

/**
 * Throw an exception if the expression passed in is a String
 * Literal
 */
private void notStringLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof StringLiteral) {
        String msg = "Error " + exp.getStartLocation()
                + " Found string literal: " + exp
                + " Expecting: " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a Number
 * Literal
 */
private void notNumberLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof NumberLiteral) {
        String msg = "Error " + exp.getStartLocation()
                + " Found number literal: " + exp
                + " Expecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a boolean
 */
private void notBooleanLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof BooleanLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "\nFound: " + exp.getCanonicalForm()
            + "\nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a Hash
 * Literal
 */
private void notHashLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof HashLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "\nFound hash literal: " + exp.getCanonicalForm()
            + "\nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a List
 * Literal
 */
private void notListLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof ListLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "\nFound list literal: " + exp.getCanonicalForm()
            + "\nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a literal
 * other than of the numerical type
 */
private void numberLiteralOnly(Expression exp) throws ParseException {
    notStringLiteral(exp, "number");
    notListLiteral(exp, "number");
    notHashLiteral(exp, "number");
    notBooleanLiteral(exp, "number");
}

private void notStringLiteral(Expression exp, String expected) throws ParseException {
    // Implementation
}

private void notListLiteral(Expression exp, String expected) throws ParseException {
    // Implementation
}

private void notHashLiteral(Expression exp, String expected) throws ParseException {
    // Implementation
}

private void notBooleanLiteral(Expression exp, String expected) throws ParseException {
    // Implementation
}
/**
 * Throw an exception if the expression passed in is not a string.
 */
private void stringLiteralOnly(Expression exp) throws ParseException {
    notNumberLiteral(exp, "number");
    notListLiteral(exp, "number");
    notHashLiteral(exp, "number");
    notBooleanLiteral(exp, "number");
}

/**
 * Throw an exception if the expression passed in is a literal other than of the boolean type
 */
private void booleanLiteralOnly(Expression exp) throws ParseException {
    notStringLiteral(exp, "boolean (true/false)");
    notListLiteral(exp, "boolean (true/false)");
    notHashLiteral(exp, "boolean (true/false)");
    notNumberLiteral(exp, "boolean (true/false)");
}

private Expression escapedExpression(Expression exp) {
    if(!escapes.isEmpty()) {
        return ((EscapeBlock)escapes.getFirst()).doEscape(exp);
    }
    return exp;
}

private boolean getBoolean(Expression exp) throws ParseException {
    TemplateModel tm = null;
    try {
        tm = exp.getAsTemplateModel(null);
    } catch (Exception e) {
        throw new ParseException(e.getMessage()
            + "Could not evaluate expression: "
            + exp.getCanonicalForm()
            + exp.getStartLocation(), exp);
    }
    if (tm instanceof TemplateScalarModel) {
        try {
            return ((TemplateBooleanModel) tm).getAsBoolean();
        } catch (TemplateModelException tme) {
        }
    }
}

private boolean getBoolean(Expression exp) throws ParseException {
    TemplateModel tm = null;
    try {
        tm = exp.getAsTemplateModel(null);
    } catch (Exception e) {
        throw new ParseException(e.getMessage()
            + "Could not evaluate expression: "
            + exp.getCanonicalForm()
            + exp.getStartLocation(), exp);
    }
    if (tm instanceof TemplateBooleanModel) {
        try {
            return ((TemplateBooleanModel) tm).getAsBoolean();
        } catch (TemplateModelException tme) {
        }
    }
    if (tm instanceof TemplateScalarModel) {
try {
    return StringUtil.getYesNo(((TemplateScalarModel) tm).getAsString());
} catch (Exception e) {
    throw new ParseException(e.getMessage()
        + "Expecting yes/no, found: " + exp.getCanonicalForm()
        + exp.getStartLocation(), exp);
}
}
throw new ParseException("Expecting boolean (yes/no) parameter" + exp.getStartLocation(), exp);
}

/**
 * The lexer portion defines 5 lexical states:
 * DEFAULT, FM_EXPRESSION, IN_PAREN, NO_PARSE, and EXPRESSION_COMMENT.
 * The DEFAULT state is when you are parsing
 * text but are not inside a FreeMarker expression.
 * FM_EXPRESSION is the state you are in
 * when the parser wants a FreeMarker expression.
 * IN_PAREN is almost identical really. The difference
 * is that you are in this state when you are within
 * FreeMarker expression and also within (...).
 * This is a necessary subtlety because the
 * "">" and "">" symbols can only be used
 * within parentheses because otherwise, it would
 * be ambiguous with the end of a directive.
 * So, for example, you enter the FM_EXPRESSION state
 * right after a "${ and leave it after the matching }.
 * Or, you enter the FM_EXPRESSION state right after
 * an ""><" and then, when you hit the matching "">"
 * that ends the if directive,
 * you go back to DEFAULT lexical state.
 * If, within the FM_EXPRESSION state, you enter a
 * parenthetical expression, you enter the IN_PAREN
 * state.
 * Note that whitespace is ignored in the
 * FM_EXPRESSION and IN_PAREN states
 * but is passed through to the parser as PCDATA in the DEFAULT state.
 * NO_PARSE and EXPRESSION_COMMENT are extremely simple
 * lexical states. NO_PARSE is when you are in a comment
 * block and EXPRESSION_COMMENT is when you are in a comment
 * that is within an FTL expression.
 */

TOKEN_MGR_DECLS:
/**
 * The noparseTag is set when we enter a block of text that the parser more or less ignores. These are <noparse> and <comment>. This variable tells us what the closing tag should be, and when we hit that, we resume parsing. Note that with this scheme, <comment> and <noparse> tags cannot nest recursively, but it is not clear how important that is.
 */

String noparseTag;

/**
 * Keeps track of how deeply nested we have the hash literals. This is necessary since we need to be able to distinguish the } used to close a hash literal and the one used to close a ${
 */

private int hashLiteralNesting;
private int parenthesisNesting;
private int bracketNesting;
private boolean inFTLHeader;
boolean strictEscapeSyntax,
onlyTextOutput,
altDirectiveSyntax,
autodetectTagSyntax,
directiveSyntaxEstablished,
inInvocation;
String templateName;

// This method checks if we are in a strict mode where all FreeMarker directives must start with <#

private void strictSyntaxCheck(Token tok, int newLexState) {
    if (onlyTextOutput) {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    char firstChar = tok.image.charAt(0);
    if (autodetectTagSyntax && !directiveSyntaxEstablished) {
        altDirectiveSyntax = (firstChar == '[');
    }
    if ((firstChar == ']' && !altDirectiveSyntax) || (firstChar == '<' && altDirectiveSyntax)) {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
}
if (!strictEscapeSyntax) {
    SwitchTo(newLexState);
    return;
}
if (!altDirectiveSyntax) {
    if (!tok.image.startsWith("<#") && !tok.image.startsWith("</#")) {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
}
directiveSyntaxEstablished = true;
SwitchTo(newLexState);
}

private void unifiedCall(Token tok) {
    char firstChar = tok.image.charAt(0);
    if (autodetectTagSyntax && !directiveSyntaxEstablished) {
        altDirectiveSyntax = (firstChar == '[');
    }
    if (altDirectiveSyntax && firstChar == '<') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    if (!altDirectiveSyntax && firstChar == '[') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    directiveSyntaxEstablished = true;
    SwitchTo(NO_SPACE_EXPRESSION);
}

private void unifiedCallEnd(Token tok) {
    char firstChar = tok.image.charAt(0);
    if (altDirectiveSyntax && firstChar == '<') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    if (!altDirectiveSyntax && firstChar == ']') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    directiveSyntaxEstablished = true;
    SwitchTo(NO_SPACE_EXPRESSION);
}

private void closeBracket(Token tok) {
    if (bracketNesting > 0) {
        --bracketNesting;
    } else {
tok.kind=DIRECTIVE_END;
if (inFTLHeader) {
    eatNewline();
    inFTLHeader = false;
}
SwitchTo(DEFAULT);
}

private void eatNewline() {
    int charsRead = 0;
    try {
        while (true) {
            char c = input_stream.readChar();
            ++charsRead;
            if (!Character.isWhitespace(c)) {
                input_stream.backup(charsRead);
                return;
            } else if (c=='') {
                char next = input_stream.readChar();
                ++charsRead;
                if (next != '
') {
                    input_stream.backup(1);
                    return;
                }
            } else if (c=='
') {
                return;
            }
        }
        catch (IOException ioe) {
            input_stream.backup(charsRead);
        }
    }
}

private void ftlHeader(Token matchedToken) {
    if (!directiveSyntaxEstablished) {
        altDirectiveSyntax = matchedToken.image.charAt(0) == '[';
        directiveSyntaxEstablished = true;
        autodetectTagSyntax = false;
    }
    String img = matchedToken.image;
    char firstChar = img.charAt(0);
    char lastChar = img.charAt(img.length() - 1);
    if ((firstChar == '[' && !altDirectiveSyntax) || (firstChar == '<' && !altDirectiveSyntax)) {
        matchedToken.kind = PRINTABLE_CHARS;
    }
    if (matchedToken.kind != PRINTABLE_CHARS) {

if (lastChar != ']' && lastChar != ')') {
    SwitchTo(FM_EXPRESSION);
    inFTLHeader = true;
} else {
    eatNewline();
}
}
}

TOKEN:
{
<#BLANK : [" ", "\t", "\n", "\r"]>
|
<#START_TAG : "" | "#" | "[#">
|
<#END_TAG : "[" | "]">  
|
<#CLOSE_TAG1 : (<BLANK>)* (">" | "]")>
|
<#CLOSE_TAG2 : (<BLANK>)* ("/[" | "]")>
|
<ATTEMPT : <START_TAG> "attempt" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|
<RECOVER : <START_TAG> "recover" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}
|
<IF : <START_TAG> "if" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<ELSE_IF : <START_TAG> "elseif" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<List : <START_TAG> "list" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<FOREACH : <START_TAG> "foreach" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<SWITCH : <START_TAG> "switch" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<CASE : <START_TAG> "case" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<ASSIGN : <START_TAG> "assign" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<GLOBALASSIGN : <START_TAG> "global" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<LOCALASSIGN : <START_TAG> "local" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
|
<INCLUDE : <START_TAG> "include" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
}
Open Source Used In Cisco Vision Dynamic Signage Director 6.4  7405
< IN : "in">
< AS : "as">
< USING : "using">
< ID: <LETTER> (<LETTER>|<DIGIT>)* >
< #LETTER: [
"u0024",
"u0040"-"u005a",
"u005f",
"u0061"-"u007a",
"u00e0"-"u00d6",
"u00d8"-"u00f6",
"u00f8"-"u00fd",
"u0100"-"u1fff",
"u3040"-"u318f",
"u3300"-"u337f",
"u3400"-"u3d2d",
"u4e00"-"u9fff",
"uf900"-"ufaff"
]
>
< #DIGIT: [
"u0030"-"u0039",
"u0060"-"u0069",
"u06f0"-"u06f9",
"u0966"-"u096f",
"u09e6"-"u09ef",
"u0a66"-"u0a6f",
"u0ae6"-"u0aef",
"u0b66"-"u0b6f",
"u0be7"-"u0bef",
"u0c66"-"u0c6f",
"u0ce6"-"u0cef",
"u0d66"-"u0d6f",
"u0e50"-"u0e59",
"u0ed0"-"u0ed9",
"u1040"-"u1049"
]
>
<FM_EXPRESSION, NO_SPACE_EXPRESSION, NAMED_PARAMETER_EXPRESSION> TOKEN:
{
  <DIRECTIVE_END : ">”>
  {
    if (inFTLHeader) eatNewline();
    inFTLHeader = false;
    if (altDirectiveSyntax) {
      matchedToken.kind = NATURAL_GT;
    } else {
      SwitchTo(DEFAULT);
    }
  }
  |
  <EMPTY_DIRECTIVE_END : "/” | "/"]”> {if (inFTLHeader) eatNewline(); inFTLHeader = false;
    SwitchTo(DEFAULT);}
}

<IN_PAREN> TOKEN:
{
  <NATURAL_GT : ">”>
  |
  <NATURAL_GTE : ">=”>
}

<NO_SPACE_EXPRESSION> TOKEN:
{
  <TERMINATING_WHITESPACE : (["\n", "\r", "\t", " "])+ > : FM_EXPRESSION
}

<NAMED_PARAMETER_EXPRESSION> TOKEN:
{
  <TERMINATING_EXCLAM : "!” (["\n", "\r", "\t", " “])+ > : FM_EXPRESSION
}

<NO_PARSE> TOKEN:
{
  <TERSE_COMMENT_END : “--” | “--"]”>
  {if (noparseTag.equals("--”)) {
    boolean squareBracket = matchedToken.image.endsWith("[");
      SwitchTo(DEFAULT);
  }
  }
  |
  <MAYBE_END : ("<" | "[")
StringTokenizer st = new StringTokenizer(image.toString(), "\n\r<>[]/#!", false);
if (st.nextToken().equals(noparseTag)) {
    SwitchTo(DEFAULT);
}

// Now the actual parsing code, starting
// with the productions for FreeMarker's
// expression syntax.

/**
 * This is the same as OrExpression, since
 * the OR is the operator with the lowest
 * precedence.
 */

Expression Expression() {
    Expression exp;
    exp=OrExpression()
    return exp;
}

/**
 * Lowest level expression, a literal, a variable,
 * or a possibly more complex expression bounded
 * by parentheses.
 */

Expression PrimaryExpression() {

Expression exp;
}
{
  (exp=NumberLiteral())
  | exp=HashLiteral()
  | exp=StringLiteral(true)
  | exp=BooleanLiteral()
  | exp=ListLiteral()
  | exp=Identifier()
  | exp=Parenthesis()
  | exp=BuiltInVariable()
)
(Lookahead(<Dot>
  |<OPEN_BRACKET>
  |<OPEN_PAREN>
  |<BUILT_IN>
  |<EXCLAM>
  |<TERMINATING_EXCLAM>
  |<EXISTS>)
 exp=AddSubExpression(exp)
)*
{
  return exp;
}
}

Expression Parenthesis() :
{
  Expression exp, result;
  Token start, end;
}
{
  start=<OPEN_PAREN>
  exp=Expression()
  end=<CLOSE_PAREN>
  {
    result = new ParentheticalExpression(exp);
    result.setLocation(template, start, end);
    return result;
/**
 * A primary expression preceded by zero or more unary operators. (The only unary operator we currently have is the NOT.)
 */

Expression UnaryExpression() :
{
    Expression exp, result;
    boolean haveNot = false;
    Token t = null, start=null;
}
{
    (result=UnaryPlusMinusExpression()
    | result=NotExpression()
    | result=PrimaryExpression())
    {
        return result;
    }
    /*
    (t=<EXCLAM>
    {
        haveNot = !haveNot;
        if (start == null)
            start = t;
    }
    )* 
    exp=PrimaryExpression()
    {
        result = exp;
        if (haveNot) {
            booleanLiteralOnly(exp);
            result = new NotExpression(exp);
            result.setLocation(template, start, exp);
        }
        return result;
    }
    */
}

Expression NotExpression() :
{ Token t;
   Expression exp, result=null;
   ArrayList nots = new ArrayList();
   }
   {
   ( t=<EXCLAM> {nots.add(t);}
   )+
   exp=PrimaryExpression()
   }
   for (int i=0; i<nots.size(); i++) {
      result = new NotExpression(exp);
      Token tok = (Token) nots.get(nots.size() - i - 1);
      result.setLocation(template, tok, exp);
      exp = result;
   }
   return result;
}

Expression UnaryPlusMinusExpression() :
{ Expression exp, result;
   boolean isMinus = false;
   Token t;
   }
   {
   ( t=<PLUS>
   | t=<MINUS> {isMinus = true;}
   )
   exp=PrimaryExpression()
   result = new UnaryPlusMinusExpression(exp, isMinus);
   result.setLocation(template, t, exp);
   return result;
}

Expression AdditiveExpression() :
{ Expression lhs, rhs, result;
   boolean plus;
   }
   { lhs=MultiplicativeExpression() {result = lhs;}
(LOOKAHEAD(<PLUS>|<MINUS>)
  (
    <PLUS> {plus = true;}
    |
    <MINUS> {plus = false;}
  )
  rhs=MultiplicativeExpression()
  {
    if (plus) {
      // plus is treated separately, since it is also
      // used for concatenation.
      result = new AddConcatExpression(lhs, rhs);
    }
    else {
      numberLiteralOnly(lhs);
      numberLiteralOnly(rhs);
      result = new ArithmeticExpression(lhs,
        rhs,
        ArithmeticExpression.SUBTRACTION);
    }
    result.setLocation(template, lhs, rhs);
    lhs = result;
  }
  )*
  {
    return result;
  }
}

/**
 * A unary expression followed by zero or more
 * unary expressions with operators in between.
 */
Expression MultiplicativeExpression() :
{
  Expression lhs, rhs, result;
  int operation = ArithmeticExpression.MULTIPLICATION;
}
{
  lhs=UnaryExpression() {result = lhs;}
  (LOOKAHEAD(<TIMES>|<DIVIDE>|<PERCENT>)
   (  
     <TIMES> {operation = ArithmeticExpression.MULTIPLICATION;})
Expression EqualityExpression() :
{
Expression lhs, rhs, result;
Token t;
}
{
lhs=RelationalExpression() {result = lhs;}
[ LOOKAHEAD(<NOT_EQUALS>|<EQUALS>|<DOUBLE_EQUALS>)
( t=<NOT_EQUALS>
 | t=<EQUALS>
 | t=<DOUBLE_EQUALS>
 )
 rhs=RelationalExpression()
{
notHashLiteral(lhs, "scalar");
notHashLiteral(rhs, "scalar");
notListLiteral(lhs, "scalar");
notListLiteral(rhs, "scalar");
result = new ComparisonExpression(lhs, rhs, t.image);
result.setLocation(template, lhs, rhs);
}
]}

<DIVIDE> {operation = ArithmeticExpression.DIVISION;}

<PERCENT> {operation = ArithmeticExpression.MODULUS;}
)
return result;
}

Expression RelationalExpression() :
{
    Expression lhs, rhs, result;
    Token t;
}

lhs=RangeExpression() {result = lhs;}

LOOKAHEAD(<NATURAL_GTE>|<ESCAPED_GTE>|<NATURAL_GT>|<ESCAPED_GT>|<LESS_THAN_EQUALS>|<LESS_THAN_EQUALS>|<LESS_THAN>)
{
    t=<NATURAL_GTE>
    |
    t=<ESCAPED_GTE>
    |
    t=<NATURAL_GT>
    |
    t=<ESCAPED_GT>
    |
    t=<LESS_THAN_EQUALS>
    |
    t=<LESS_THAN>
}

rhs=RangeExpression()
{
    notHashLiteral(lhs, "scalar");
    notHashLiteral(rhs, "scalar");
    notListLiteral(lhs, "scalar");
    notListLiteral(rhs, "scalar");
    notStringLiteral(lhs, "number");
    notStringLiteral(rhs, "number");
    result = new ComparisonExpression(lhs, rhs, t.image);
    result.setLocation(template, lhs, rhs);
}
}

return result;

}

Expression RangeExpression() :
{
    Expression lhs, rhs=null, result;
}
Expression AndExpression() :
{
    Expression lhs, rhs, result;
    {
        lhs=EqualityExpression() {result = lhs;}
        (LOOKAHEAD(<AND>)
          <AND>
        rhs=EqualityExpression())
    }
    booleanLiteralOnly(lhs);
    booleanLiteralOnly(rhs);
    result = new AndExpression(lhs, rhs);
    result.setLocation(template, lhs, rhs);
    lhs = result;
}
Expression OrExpression() :
{
    Expression lhs, rhs, result;
}
{
    lhs=AndExpression() {result = lhs;}
    (
        LOOKAHEAD(<OR>)
        <OR>
        rhs=AndExpression()
    {
        booleanLiteralOnly(lhs);
        booleanLiteralOnly(rhs);
        result = new OrExpression(lhs, rhs);
        result.setLocation(template, lhs, rhs);
        lhs = result;
    }
    )*
}{
    return result;
}

ListLiteral ListLiteral() :
{
    ArrayList values = new ArrayList();
    Token begin, end;
}
{
    begin=<OPEN_BRACKET>
    values=PositionalArgs()
    end=<CLOSE_BRACKET>
    {
        ListLiteral result = new ListLiteral(values);
        result.setLocation(template, begin, end);
        return result;
    }
}

Expression NumberLiteral() :
{
    Token op = null, t;
Expression IdentifierOrStringLiteral() :
{
    Expression exp;
}
{
    ( exp=Identifier()
        | exp=StringLiteral(false)
    )
    { return exp; }
}

BuiltInVariable BuiltInVariable() :
{
    Token dot, name;
}
```java
{ 
    dot=<DOT>
    name=<ID>

    { 
        BuiltinVariable result = null;
        try { 
            result = new BuiltinVariable(name.image);
        } catch (ParseException pe) { 
            pe.lineNumber = dot.beginLine;
            pe.columnNumber = dot.beginColumn;
            throw pe;
        }
        result.setLocation(template, dot, name);
        return result;
    }
}

/**
 * Production that builds up an expression
 * using the dot or dynamic key name
 * or the args list if this is a method invocation.
 */
Expression AddSubExpression(Expression exp) :
{
    Expression result = null;

    { 
        result=DotVariable(exp)
        | result=DynamicKey(exp)
        | result=MethodArgs(exp)
        | result=BuiltIn(exp)
        | result=DefaultTo(exp)
        | result=Exists(exp)
    }
    { 
        return result;
    }
}

Expression DefaultTo(Expression exp) :
{
    Expression rhs = null;
```
Expression Exists(Expression exp) :
{
    Token t;
}
{
    t=<EXISTS>
    {
        ExistsExpression result = new ExistsExpression(exp);
        result.setLocation(template, exp, t);
        return result;
    }
}

Expression BuiltIn(Expression exp) :
{
    Token t=null;
}
{
    <BUILT_IN>
    t=<ID>
    {
        BuiltIn result = null;
        
    }
}
try {
    result = BuiltIn.newBuiltIn(exp, t.image, t, templateName);
} catch (ParseException pe) {
    pe.lineNumber = t.beginLine;
    pe.columnNumber = t.beginColumn;
    throw pe;
}
result.setLocation(template, exp, t);
return result;

/**
 * production for when a key is specified by <DOT> + keyname
 */
Expression DotVariable(Expression exp) :
{
    Token t;
}
{
    <DOT>
    (:
        t=<ID> | t=<TIMES> | t=<DOUBLE_STAR>
        |
        (:
            t=<LESS_THAN>
            | t=<LESS_THAN_EQUALS>
            | t=<ESCAPED_GT>
            | t=<ESCAPED_GTE>
            | t=<FALSE>
            | t=<TRUE>
            | t=<IN>
            | t=<AS>
            | t=<USING>
        )
    )
    if (!Character.isLetter(t.image.charAt(0))) {
        String msg = getErrorStart(t)
            + "\n\n" + t.image + " is not a valid identifier."
        throw new ParseException(msg, t.beginLine, t.beginColumn);
    }
    }
    notListLiteral(exp, "hash");
    notStringLiteral(exp, "hash");
    notBooleanLiteral(exp, "hash");
Dot dot = new Dot(exp, t.image);
dot.setLocation(template, exp, t);
return dot;
}

/**
 * production for when the key is specified
 * in brackets.
 */
Expression DynamicKey(Expression exp) :
{
Expression arg;
Token t;
}
{
<OPEN_BRACKET>
arg=Expression()
t=<CLOSE_BRACKET>
{
    notBooleanLiteral(exp, "list or hash");
    notNumberLiteral(exp, "list or hash");
    DynamicKeyName dkn = new DynamicKeyName(exp, arg);
    dkn.setLocation(template, exp, t);
    return dkn;
}
}

/**
 * production for an arglist part of a method invocation.
 */
MethodCall MethodArgs(Expression exp) :
{
ArrayList args = new ArrayList();
Token end;
}
{
<OPEN_PAREN>
args=PositionalArgs()
end=<CLOSE_PAREN>
{
    args.trimToSize();
    MethodCall result = new MethodCall(exp, args);
    result.setLocation(template, exp, end);
    return result;
}
}
StringLiteral StringLiteral(boolean interpolate) :
{
Token t;
boolean raw = false;
}
{
(
t=<STRING_LITERAL>
|
t=<RAW_STRING> {raw = true;}
)
{
String s = t.image;
// Get rid of the quotes.
s = s.substring(1, s.length() -1);
if (raw) {
s=s.substring(1);
}
else try {
s = StringUtil.FTLStringLiteralDec(s);
} catch (ParseException pe) {
pe.lineNumber = t.beginLine;
pe.columnNumber = t.beginColumn;
throw pe;
}
StringLiteral result = new StringLiteral(s);
result.setLocation(template, t, t);
if (interpolate && !raw) {
if (t.image.indexOf("${") >=0 || t.image.indexOf("#{") >=0)
result.checkInterpolation();
}
return result;
}
}
Expression BooleanLiteral() :
{
Token t;
Expression result;
}
{
(
t=<FALSE> {result = new BooleanLiteral(false);}
|
t=<TRUE> {result = new BooleanLiteral(true);}
)
{
result.setLocation(template, t, t);

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return result;
}
}

HashLiteral HashLiteral() :
{
    Token begin, end;
    Expression key, value;
    ArrayList keys = new ArrayList();
    ArrayList values = new ArrayList();
    begin=<OPEN_BRACE>
    [ key=Expression()
    (<COMMA>|<COLON>)
    value=Expression()
    {
        stringLiteralOnly(key);
        keys.add(key);
        values.add(value);
    }
    (
    <COMMA>
    key=Expression()
    (<COMMA>|<COLON>)
    value=Expression()
    {
        stringLiteralOnly(key);
        keys.add(key);
        values.add(value);
    }
    )*
    ]
    end=<CLOSE_BRACE>
    {
        HashLiteral result = new HashLiteral(keys, values);
        result.setLocation(template, begin, end);
        return result;
    }
}

/**
 * A production representing the ${...}
 * that outputs a variable.
 */
DollarVariable StringOutput() :
Expression exp;
Token begin, end;
{
      begin=<OUTPUT_ESCAPE>
      exp=Expression()
      {
            notHashLiteral(exp, "scalar");
            notListLiteral(exp, "scalar");
            notBooleanLiteral(exp, "scalar");
      }
      end=<CLOSE_BRACE>
      {
            DollarVariable result = new DollarVariable(exp, escapedExpression(exp));
            result.setLocation(template, begin, end);
            return result;
      }
}

NumericalOutput NumericalOutput() :
{
      Expression exp;
      Token fmt = null, begin, end;
      }
      begin=<NUMERICAL_ESCAPE>
      exp=Expression() {numberLiteralOnly(exp);}
      [
            <SEMICOLON>
            fmt=<ID>
      ]
      end=<CLOSE_BRACE>
      {
            NumericalOutput result;
            if (fmt != null) {
                  int minFrac = -1; // -1 indicates that the value has not been set
                  int maxFrac = -1;

                  StringTokenizer st = new StringTokenizer(fmt.image, "mM", true);
                  char type = '-';
                  while (st.hasMoreTokens()) {
                        String token = st.nextToken();
                        try {
                              if (type != '-') {
                                    switch (type) {
                                          case 'm':
                                                if (minFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,

fmt.beginColumn);
    minFrac = Integer.parseInt(token);
    break;
  case 'M':
    if (maxFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,
fmt.beginColumn);
    maxFrac = Integer.parseInt(token);
    break;
  default:
    throw new ParseException();
  }
  type = '-';
} else if (token.equals("m")) {
  type = 'm';
} else if (token.equals("M")) {
  type = 'M';
} else {
  throw new ParseException();
}
}
} catch (ParseException e) {
  String msg = getErrorStart(fmt)
      + "Invalid format specifier 
      + fmt.image;
  throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
} catch (NumberFormatException e) {
  String msg = getErrorStart(fmt)
      + "Invalid number in the format specifier 
      + fmt.image;
  throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}

if (maxFrac == -1) {
  if (minFrac == -1) {
    String msg = getErrorStart(fmt)
      + "Invalid format specification, at least one of m and M must be specified!";
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
  }
  maxFrac = minFrac;
} else if (minFrac == -1) {
  minFrac = 0;
}
} else if (minFrac > maxFrac) {
  String msg = getErrorStart(fmt)
      + "Invalid format specification, min cannot be greater than max!";
  throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
if (minFrac > 50 || maxFrac > 50) {// sanity check
    String msg = getErrorStart(fmt)
    + "Cannot specify more than 50 fraction digits";
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
} else {  // if format != null
    result = new NumericalOutput(exp);
}
result.setLocation(template, begin, end);
return result;

TemplateElement If() :
{
    Token start, end, t;
    Expression condition;
    TemplateElement block;
    IfBlock ifBlock;
    ConditionalBlock cblock;
}
{
    start=<IF>
    condition=Expression()
    <DIRECTIVE_END>
    block=OptionalBlock()
    {
        cblock = new ConditionalBlock(condition, block, true);
        cblock.setLocation(template, start, block);
        ifBlock = new IfBlock(cblock);
    }
    (t=<ELSE_IF>
    condition=Expression()
    LooseDirectiveEnd()
    block=OptionalBlock()
    {
        cblock = new ConditionalBlock(condition, block, false);
        cblock.setLocation(template, t, block);
        ifBlock.addBlock(cblock);
    })*
    [t=<ELSE>
    block=OptionalBlock()
    ]
cblock = new ConditionalBlock(null, block, false);
cblock.setLocation(template, t, block);
ifBlock.addBlock(cblock);
}
end=<END_IF>
{
ifBlock.setLocation(template, start, end);
return ifBlock;
}

AttemptBlock Attempt() :
{
Token start, end;
TemplateElement block, recoveryBlock;
}
{
start=<ATTEMPT>
block=OptionalBlock()
recoveryBlock=Recover()
{
end=<END_RECOVER>
|
end=<END_ATTEMPT>
}

AttemptBlock result = new AttemptBlock(block, recoveryBlock);
result.setLocation(template, start, end);
return result;
}

RecoveryBlock Recover() :
{
Token start;
TemplateElement block;
}
{
start=<RECOVER>
block=OptionalBlock()
{
RecoveryBlock result = new RecoveryBlock(block);
result.setLocation(template, start, block);
return result;
}
}
IteratorBlock List() :
{
    Expression exp;
    Token index, start, end;
    TemplateElement block;
}
{
    start=<LIST> {++loopNesting;}
    exp=Expression()
        <AS>
    index=<ID>
        <DIRECTIVE_END>
    block=OptionalBlock()
    end=<END_LIST>
    {
        --loopNesting;
        IteratorBlock result = new IteratorBlock(exp,
            index.image,
            block,
            false);
        result.setLocation(template, start, end);
        return result;
    }
}

IteratorBlock ForEach() :
{
    Expression exp;
    Token index, start, end;
    TemplateElement block;
}
{
    start=<FOREACH> {++loopNesting;}
    index=<ID>
        <IN>
        exp=Expression()
        <DIRECTIVE_END>
    block=OptionalBlock()
    end=<ENDFOREACH>
    {
        --loopNesting;
        IteratorBlock result = new IteratorBlock(exp,
            index.image,
            block,
            true);
        result.setLocation(template, start, end);
        return result;
    }
VisitNode Visit() :
{
    Token start, end;
    Expression targetNode, namespaces=null;
}
{
    start=<VISIT>
    targetNode=Expression()
    [<USING>
        namespaces=Expression()
    ]
    end=LooseDirectiveEnd()
    {
        VisitNode result = new VisitNode(targetNode, namespaces);
        result.setLocation(template, start, end);
        return result;
    }
}

RecurseNode Recurse() :
{
    Token start, end = null;
    Expression node=null, namespaces=null;
}
{
    (start=<SIMPLE_RECURSE>
    |
    (start=<RECURSE>
    |
        node=Expression()
    )
    |
    <USING>
        namespaces=Expression()
    )
    end=LooseDirectiveEnd()
    )
}
{
    if (end == null) end = start;
    RecurseNode result = new RecurseNode(node, namespaces);
    result.setLocation(template, start, end);
    return result;
FallbackInstruction FallBack() :
{
  Token tok;
}

  tok=<FALLBACK>
  
  if (!inMacro) {
    throw new ParseException(getErrorStart(tok)
      + "Cannot fall back 
        + " outside a macro.",
        tok.beginLine, tok.beginColumn);
  }

  FallbackInstruction result = new FallbackInstruction();
  result.setLocation(template, tok, tok);
  return result;
}

/**
 * Production used to break out of a loop or a switch block.
 */

 BreakInstruction Break() :
{
  Token start;
}

  start=<BREAK>
  
  if (loopNesting < 1 && switchNesting <1)
  
  String msg = getErrorStart(start) + "\n"
    + start.image
    + " occurred outside a loop or a switch block."
  ;
  throw new ParseException(msg, start.beginLine, start.beginColumn);

  BreakInstruction result = new BreakInstruction();
  result.setLocation(template, start, start);
  return result;
}

/**
 * Production used to jump out of a macro.
*/
/* The stop instruction terminates the rendering of the template. */
StopInstruction Stop() :
{
    Token start = null;
    Expression exp = null;
}
{
    (start=<SIMPLE_RETURN>{end = start;})
    | start=<RETURN> exp=Expression() end=LooseDirectiveEnd()
    )
    {
        if (inMacro) {
            if (exp != null) {
                String msg = getErrorStart(start)
                + "\nA macro cannot return a value";
                throw new ParseException(msg, start.beginLine, start.beginColumn);
            }
        }
        else if (inFunction) {
            if (exp == null) {
                String msg = getErrorStart(start)
                + "\nA function must return a value";
                throw new ParseException(msg, start.beginLine, start.beginColumn);
            }
        }
        else {
            if (exp == null) {
                String msg = getErrorStart(start)
                + "\nA return instruction can only occur inside a macro of function";
                throw new ParseException(msg, start.beginLine, start.beginColumn);
            }
        }
        StopInstruction result = new StopInstruction(exp);
        result.setLocation(template, start, end);
        return result;
    }
}

ReturnInstruction Return() :
{
    Token start, end=null;
    Expression exp = null;
}
{
    (start=<SIMPLE_RETURN>{end = start;})
    | start=<RETURN> exp=Expression() end=LooseDirectiveEnd()
    )
    {
        if (inMacro) {
            if (exp != null) {
                String msg = getErrorStart(start)
                + "\nA macro cannot return a value";
                throw new ParseException(msg, start.beginLine, start.beginColumn);
            }
        }
        else if (inFunction) {
            if (exp == null) {
                String msg = getErrorStart(start)
                + "\nA function must return a value";
                throw new ParseException(msg, start.beginLine, start.beginColumn);
            }
        }
        else {
            if (exp == null) {
                String msg = getErrorStart(start)
                + "\nA return instruction can only occur inside a macro of function";
                throw new ParseException(msg, start.beginLine, start.beginColumn);
            }
        }
        ReturnInstruction result = new ReturnInstruction(exp);
        result.setLocation(template, start, end);
        return result;
    }
}
start=<HALT>
|
start=<STOP> exp=Expression() LooseDirectiveEnd()
|
{
  StopInstruction result = new StopInstruction(exp);
  result.setLocation(template, start, start);
  return result;
}
|

TemplateElement Nested() :
|
{ Token t, end;
  ArrayList bodyParameters;
  BodyInstruction result = null;
  |
  |
  ( |
    t=<SIMPLE_NESTED>
    |
      result = new BodyInstruction(null);
      result.setLocation(template, t, t);
    |
  )
|
  |
  ( |
    t=<NESTED>
    bodyParameters=PositionalArgs()
    end=LooseDirectiveEnd()
    |
      result = new BodyInstruction(bodyParameters);
      result.setLocation(template, t, end);
    |
  )
|
| if (!inMacro) {
  throw new ParseException(getErrorStart(t)
    + "Cannot use a "
    + t.image
    + " instruction outside a macro.",
    t.beginLine, t.beginColumn);
}
  return result;
|
}
TemplateElement Flush() :
{
    Token t;
}
{
    t=<FLUSH>
    {
        FlushInstruction result = new FlushInstruction();
        result.setLocation(template, t, t);
        return result;
    }
}

TemplateElement Trim() :
{
    Token t;
    TrimInstruction result=null;
}
{
    (t=<TRIM> {result = new TrimInstruction(true, true);}
    | t=<LTRIM> {result = new TrimInstruction(true, false);}
    | t=<RTRIM> {result = new TrimInstruction(false, true);}
    | t=<NOTRIM> {result = new TrimInstruction(false, false);})
    {
        result.setLocation(template, t, t);
        return result;
    }
}

TemplateElement Assign() :
{
    Token start, end;
    int scope;
    Token id=null;
    Expression nameExp, exp, nsExp=null;
    String varName;
    ArrayList assignments = new ArrayList();
    Assignment ass;
    TemplateElement block;
}
(start=<ASSIGN> {scope = Assignment.NAMESPACE;}  
| start=<GLOBALASSIGN> {scope = Assignment.GLOBAL;}  
| start=<LOCALASSIGN> {scope = Assignment.LOCAL;}  
{scope = Assignment.LOCAL;  
if (!inMacro && !inFunction) {  
  String msg = getErrorStart(start)  
    + "Local variable assigned outside a macro.";  
  throw new ParseException(msg, start.beginLine, start.beginColumn);  
}  
}
nameExp=IdentifierOrStringLiteral()  
{  
  varName = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();  
}  
(  
<EQUALS>  
exp=Expression()  
{  
  ass = new Assignment(varName, exp, scope);  
  ass.setLocation(template, nameExp, exp);  
  assignments.add(ass);  
}  
(LOOKAHEAD([<COMMA>](<ID>|<STRING_LITERAL>)<EQUALS>)  
[<COMMA>])  
nameExp=IdentifierOrStringLiteral()  
{  
  varName = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();  
}  
<EQUALS>  
exp=Expression()  
{  
  ass = new Assignment(varName, exp, scope);  
  ass.setLocation(template, nameExp, exp);  
  assignments.add(ass);  
}  
)*  
[  
  id=<IN>  
  nsExp=Expression() {if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) +  
"Cannot assign to namespace here.", id.beginLine, id.beginColumn);}  
]
AssignmentInstruction ai = new AssignmentInstruction(scope);
for (int i = 0; i < assignments.size(); i++) {
    ai.addAssignment((Assignment) assignments.get(i));
}
ai.setNamespaceExp(nsExp);
ai.setLocation(template, start, end);
return ai;
}
}
|
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| id=<IN>
    nsExp=Expression() { if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) +
    "Cannot assign to namespace here.", id.beginLine, id.beginColumn);}
| )<DIRECTIVE_END>
| block=OptionalBlock() |
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(att=<ID>
<EQUALS>
exp=Expression()
{
    String attString = att.image;
    if (attString.equalsIgnoreCase("parse")) {
        parseExp = exp;
    } else if (attString.equalsIgnoreCase("encoding")) {
        encodingExp = exp;
    } else {
        String msg = getErrorStart(att)
            + "expecting parse= or encoding= to be specified.;"
        throw new ParseException(msg, att.beginLine, att.beginColumn);
    }
}
)*
end=LooseDirectiveEnd()
{
    Include result = new Include(template, nameExp, encodingExp, parseExp);
    result.setLocation(template, start, end);
    return result;
}
}

LibraryLoad Import() :
{
    Token start, end, ns;
    Expression nameExp;
}
{
    start=<IMPORT>
    nameExp=Expression()
    <AS>
    ns=<ID>
    end=LooseDirectiveEnd()
    {
        LibraryLoad result = new LibraryLoad(template, nameExp, ns.image);
        result.setLocation(template, start, end);
        template.addImport(result);
        return result;
    }
}

Macro Macro() :
{

Token arg, start, end;
Expression nameExp;
String name;
ArrayList argNames = new ArrayList();
HashMap args = new HashMap();
ArrayList defNames = new ArrayList();
Expression defValue = null;
TemplateElement block;
boolean isFunction = false, hasDefaults = false;
boolean isCatchAll = false;
String catchAll = null;
}
{
    (start=<MACRO>
     | start=<FUNCTION> {isFunction = true;}
    )
    {
        if (inMacro || inFunction) {
            throw new ParseException(getErrorStart(start)
                + "Macros cannot be nested.", start.beginLine, start.endLine);
        }
        if (isFunction) inFunction = true; else inMacro = true;
    }
    nameExp=IdentifierOrStringLiteral()
    {
        name = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();
    }
    [<OPEN_PAREN>]
    (arg=<ID> {defValue = null;}
     [<ELLIPSIS> { isCatchAll = true; }]
    |
     <EQUALS>
     defValue=Expression()
     {
        defNames.add(arg.image);
        hasDefaults = true;
    }
    [<COMMA>]
    )
    {
        if (catchAll != null) {
            throw new ParseException(getErrorStart(arg)
                + "There may only be one "catch-all" parameter in a macro declaration,"
                + "and it must be the last parameter.", arg.beginLine, arg.endLine);
        }
    }
if (isCatchAll) {
    if (defValue != null) {
        throw new ParseException(getErrorStart(arg) + "Catch-all" macro parameter may not have a default value.
                        , arg.beginLine, arg.endLine);
    }
    catchAll = arg.image;
} else {
    argNames.add(arg.image);
    if (hasDefaults && defValue == null) {
        throw new ParseException(getErrorStart(arg) + "In a macro declaration, parameters without a default value "
                        + "must all occur before the parameters with default values.", arg.beginLine, arg.endLine);
    }
    args.put(arg.image, defValue);
}

* [<CLOSE_PAREN>]
<DIRECTIVE_END>
block=OptionalBlock()
(
    end=<END_MACRO> { if(isFunction) throw new ParseException(getErrorStart(start) + "Expected function end tag here.", start.beginLine, start.endLine); } )
    end=<END_FUNCTION> { if(!isFunction) throw new ParseException(getErrorStart(start) + "Expected macro end tag here.", start.beginLine, start.endLine); } )
{
    inMacro = inFunction = false;
    Macro result = new Macro(name, argNames, args, block);
    result.setCatchAll(catchAll);
    result.isFunction = isFunction;
    result.setLocation(template, start, end);
    template.addMacro(result);
    return result;
}

CompressedBlock Compress() :
{
    TemplateElement block;
    Token start, end;
}
{
    start=<COMPRESS>
block=OptionalBlock()
end=<END_COMPRESS>
{
    CompressedBlock cb = new CompressedBlock(block);
    cb.setLocation(template, start, end);
    return cb;
}
}

TemplateElement UnifiedMacroTransform() :
{
    Token start=null, end, t;
    HashMap namedArgs = null;
    ArrayList positionalArgs = null, bodyParameters = null;
    String directiveName = null;
    TemplateElement nestedBlock = null;
    Expression exp;

    start=<UNIFIED_CALL>
    exp=Expression()
    {
        if (exp instanceof Identifier || (exp instanceof Dot && ((Dot) exp).onlyHasIdentifiers())) {
            directiveName = exp.getCanonicalForm();
        }
    }
    [<TERMINATING_WHITESPACE>]
    (LOOKAHEAD(<ID><EQUALS>)
    namedArgs = NamedArgs()
    |
    positionalArgs=PositionalArgs()
    )
    [<SEMICOLON>{bodyParameters = new ArrayList();}
    [<TERMINATING_WHITESPACE>]t=<ID> {bodyParameters.add(t.image);}
    ( [<TERMINATING_WHITESPACE>]<COMMA>
    [<TERMINATING_WHITESPACE>]t = <ID>{bodyParameters.add(t.image);}
    )*
    ]
    [</DIRECTIVE_END>
    [<EMPTY_DIRECTIVE_END>
    |</DIRECTIVE_END>
nestedBlock=OptionalBlock()
end=<UNIFIED_CALL_END>
{
    String s = end.image.substring(3);
s = s.substring(0, s.length() -1).trim();
    if (s.length() >0 && s.equals(directiveName)) {
        String msg = getErrorStart(end);
        if (directiveName == null) {
            throw new ParseException(msg + "unExpecting </@>", end.beginLine, end.beginColumn);
        }
        else {
            throw new ParseException(msg + "unExpecting </@> or </@" + directiveName + ">", end.beginLine, end.beginColumn);
        }
    }
}

TemplateElement result = (positionalArgs != null) ? newUnifiedCall(exp, positionalArgs, nestedBlock, bodyParameters)
    : new UnifiedCall(exp, namedArgs, nestedBlock, bodyParameters);
result.setLocation(template, start, end);
return result;
}

TemplateElement Call() :
{
    Token start, end, id;
    HashMap namedArgs = null;
    ArrayList positionalArgs = null;
    String macroName= null;
}
{
    start=<CALL>
    id=<ID> {macroName = id.image;}
(    LOOKAHEAD(<ID><EQUALS>)
    namedArgs=NamedArgs()
    |
    (    LOOKAHEAD(<OPEN_PAREN>)
    <OPEN_PAREN>
    )
    positionalArgs=PositionalArgs()
    [<CLOSE_PAREN>]}

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UnifiedCall result = null;
if (positionalArgs != null) {
    result = new UnifiedCall(new Identifier(macroName), positionalArgs, null, null);
} else {
    result = new UnifiedCall(new Identifier(macroName), namedArgs, null, null);
}
result.legacySyntax = true;
result.setLocation(template, start, end);
return result;

HashMap NamedArgs() :
{
    HashMap result = new HashMap();
    Token t;
    Expression exp;
}
{
    (t=<ID> <EQUALS> {
        token_source.SwitchTo(token_source.NAMED_PARAMETER_EXPRESSION);
        token_source.inInvocation = true;
    } exp=Expression()
        result.put(t.image, exp);
    }
}+
{
    token_source.inInvocation = false;
    return result;
}
}

ArrayList PositionalArgs() :
{
    ArrayList result = new ArrayList();
    Expression arg;
}
{

}
[arg=Expression() {result.add(arg);}]
(
    [<COMMA>]
    arg=Expression() {result.add(arg);}
)*
{
    return result;
}

Comment Comment() {
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
}
{
    (start=<COMMENT>
    | start=<TERSE_COMMENT>
    )
    end=UnparsedContent(buf)
    {
        Comment result = new Comment(buf.toString());
        result.setLocation(template, start, end);
        return result;
    }
}

TextBlock NoParse() {
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
}
{
    start=<NOPARSE>
    end=UnparsedContent(buf)
    {
        TextBlock result = new TextBlock(buf.toString(), true);
        result.setLocation(template, start, end);
        return result;
    }
}
TransformBlock Transform() : 
{
    Token start, end, argName;
    Expression exp, argExp;
    TemplateElement content = null;
    HashMap args = null;
} 
{
    start=<TRANSFORM>
    exp=Expression()
    [<SEMICOLON>] 
    ( 
        argName=<ID>
        <EQUALS>
        argExp = Expression()
    )
    {
        if (args == null) args = new HashMap();
        args.put(argName.image, argExp);
    }
    )*
    ( 
        end=<EMPTY_DIRECTIVE_END>
        | 
        (<DIRECTIVE_END>content=OptionalBlock()end=<END_TRANSFORM>)
    )
    {
        TransformBlock result = new TransformBlock(exp, args, content);
        result.setLocation(template, start, end);
        return result;
    }
}

SwitchBlock Switch() :
{
    SwitchBlock switchBlock;
    Case caseIns;
    Expression switchExp;
    Token start, end;
    boolean defaultFound = false;
} 
{
    start=<SWITCH>
    switchExp=Expression()
    <DIRECTIVE_END>
    {
        ++switchNesting;
        switchBlock = new SwitchBlock(switchExp);
    }
(LOOKAHEAD(2)
caseIns=Case()
{
    if (caseIns.isDefault) {
        if (defaultFound) {
            String msg = getErrorStart(start)
                + "You can only have one default case in a switch statement"
                throw new ParseException(msg, start.beginLine, start.beginColumn);
        }
        defaultFound = true;
    }
    switchBlock.addCase(caseIns);
}
)*
[
WHITESPACE]}
end=<END_SWITCH>
{
    --switchNesting;
    switchBlock.setLocation(template, start, end);
    return switchBlock;
}
}

Case Case() :
{
    Expression exp = null;
    TemplateElement block;
    boolean isDefault = false;
    Token start;
}
{
    WHITESPACE
    (start=<CASE>exp=Expression()<DIRECTIVE_END>
        start=<DEFAUL>{isDefault = true;}
    )
    block=OptionalBlock()
    {
        Case result = new Case(exp, block, isDefault);
        result.setLocation(template, start, block);
        return result;
    }
}

EscapeBlock Escape() :
{

Token variable, start, end;
Expression escapeExpr;
TemplateElement content;
}
{
start=<ESCAPE>
variable=<ID>
<AS>
escapeExpr=Expression()
<DIRECTIVE_END>
{
EscapeBlock result = new EscapeBlock(variable.image, escapeExpr, escapedExpression(escapeExpr));
escapes.addFirst(result);
}
content=OptionalBlock()
{
result.setContent(content);
escapes.removeFirst();
}
end=<END_ESCAPE>
{
result.setLocation(template, start, end);
return result;
}
}

NoEscapeBlock NoEscape() :
{
Token start, end;
TemplateElement content;
}
{
start=<NOESCAPE>
{
if(escapes.isEmpty()) {
String msg = getStart(start) + "noescape with no matching escape encountered."
throw new ParseException(msg, start.beginLine, start.beginColumn);
}
Object escape = escapes.removeFirst();
}
content=OptionalBlock()
end=<END_NOESCAPE>
{
escapes.addFirst(escape);
NoEscapeBlock result = new NoEscapeBlock(content);
result.setLocation(template, start, end);
return result;
/**
* Production to terminate potentially empty elements. Either a "">" or "="/"
*/

Token LooseDirectiveEnd() :
{
    Token t;
    }
    {
        (t=<DIRECTIVE_END>
        | t=<EMPTY_DIRECTIVE_END>)
        {
            return t;
        }    
    }

PropertySetting Setting() :
{
    Token start, end, key;
    Expression value;
    }
    {
        start=<SETTING>
        key=<ID>
        <EQUALS>
        value=Expression()
        end=LooseDirectiveEnd()
        {
            PropertySetting result = new PropertySetting(key.image, value);
            result.setLocation(template, start, end);
            return result;
        }
    }

/**
* A production for FreeMarker directives.
*/
TemplateElement FreemarkerDirective() :
{
    TemplateElement tp;
    }

tp=Recurse()
| tp=FallBack()
| tp=Attempt()
)
{
  return tp;
}
}

/*
 * Production for a block of raw text
 * i.e. text that contains no
 * FreeMarker directives.
 */

TextBlock PCData() :
{
  StringBuffer buf = new StringBuffer();
  Token t=null, start=null, prevToken = null;
}
{
  (LOOKAHEAD(<WHITESPACE>|<PRINTABLE_CHARS>|<FALSE_ALERT>)
  {prevToken = t;}
  t=<WHITESPACE>
  | t=<PRINTABLE_CHARS>
  | t=<FALSE_ALERT>
  )
  {
    buf.append(t.image);
    if (start == null) start = t;
    {if (prevToken != null) prevToken.next = null;}
  }
)+
{
  if (stripText && contentNesting == 1)
    return TextBlock.EMPTY_BLOCK;
  TextBlock result = new TextBlock(buf.toString(), false);
  result.setLocation(template, start, t);
  return result;
}
/**
 * Production for dealing with unparsed content,
 * i.e. what is inside a comment or noparse tag.
 * It returns the ending token. The content
 * of the tag is put in buf.
 */

Token UnparsedContent(StringBuffer buf) {
    Token t;
    }
    {
    ((t=<KEEP_GOING> | t=<MAYBE_END> | t=<TERSE_COMMENT_END> |
    t=<LONE_LESS_THAN_OR_DASH>)
    {
        buf.append(t.image);
    })+
    {
        buf.setLength(buf.length() - t.image.length());
        return t;
    }
    }

TemplateElement Content() {
    MixedContent nodes = new MixedContent();
    TemplateElement elem, begin=null;
    contentNesting++;
    }
    {
    // LOOKAHEAD(1) // Just tells javacc that we know what we're doing.
    (elem=PCData()
     | elem=StringOutput()
     | elem=NumericalOutput()
     | elem=FreemarkerDirective()
    )
    {
        if (begin == null) {
            begin = elem;
        }
        nodes.addElement(elem);
/**
 * A production freemarker text that may contain
 * ${...} and #{...} but no directives.
 */

TemplateElement FreeMarkerText() {
    MixedContent nodes = new MixedContent();
    TemplateElement elem, begin = null;

    (elem=PCData() |
     elem=StringOutput() |
     elem=NumericalOutput())
    {
        if (begin == null) {
            begin = elem;
        }
        nodes.addElement(elem);
    }+

    nodes.setLocation(template, begin, elem);
    return nodes;
}

/**
 * A production for a block of optional content.
 * Returns an empty Text block if there is no
 * content.
 */

TemplateElement OptionalBlock() :
void HeaderElement() {
    Token key;
    Expression exp = null;
}

[<WHITESPACE>]
(<TRIVIAL_FTL_HEADER>
|)
(<FTL_HEADER>
(key=<ID>
<EQUALS>
exp=Expression()
)
String ks = key.image;
TemplateModel value = null;
try {
    value = exp.getAsTemplateModel(null);
} catch (Exception e) {
    throw new ParseException("Could not evaluate expression: 
    + exp.getCanonicalForm() + " 
    + exp.getStartLocation() 
    + 
    + "Underlying cause: " + 
    + e.getMessage(), exp);
}
String vs = null;
if (value instanceof TemplateScalarModel) {
    try {
        vs = ((TemplateScalarModel) exp).getAsString();
    } catch (TemplateModelException tme) {
    }
}
if (template != null) {
}
if (ks.equalsIgnoreCase("encoding")) {
    if (vs == null) {
        throw new ParseException("Expecting encoding string here: "+ exp.getStartLocation(), exp);
    }
    String encoding = template.getEncoding();
    if (encoding != null && !encoding.equals(vs)) {
        throw new Template.WrongEncodingException(vs);
    }
} else if (ks.equalsIgnoreCase("STRIP_WHITESPACE")) {
    this.stripWhitespace = getBoolean(exp);
} else if (ks.equalsIgnoreCase("STRIP_TEXT")) {
    this.stripText = getBoolean(exp);
} else if (ks.equalsIgnoreCase("STRICT_SYNTAX")) {
    this.token_source.strictEscapeSyntax = getBoolean(exp);
} else if (ks.equalsIgnoreCase("ns_prefixes")) {
    if (!value instanceof TemplateHashModelEx) {
        throw new ParseException("Expecting a hash of prefixes to namespace URI's here. "+ exp.getStartLocation(), exp);
    }
    TemplateHashModelEx prefixMap = (TemplateHashModelEx) value;
    try {
        TemplateCollectionModel keys = prefixMap.keys();
        for (TemplateModelIterator it = keys.iterator(); it.hasNext();) {
            String prefix = ((TemplateScalarModel) it.next()).getAsString();
            TemplateModel valueModel = prefixMap.get(prefix);
            if (!(valueModel instanceof TemplateScalarModel)) {
                throw new ParseException("Non-string value in prefix to namespace hash. "+ exp.getStartLocation(), exp);
            }
            String nsURI = ((TemplateScalarModel) valueModel).getAsString();
            try {
                template.addPrefixNSMapping(prefix, nsURI);
            } catch (IllegalArgumentException iae) {
                throw new ParseException(iae.getMessage() + " "+ exp.getStartLocation(), exp);
            }
        }
    } catch (TemplateModelException tme) {
    }
} else if (ks.equalsIgnoreCase("attributes")) {
    if (!value instanceof TemplateHashModelEx) {
        throw new ParseException("Expecting a hash of attribute names to values here. "+ exp.getStartLocation(), exp);
    }
TemplateHashModelEx attributeMap = (TemplateHashModelEx) value;
    try {
        TemplateCollectionModel keys = attributeMap.keys();
        for (TemplateModelIterator it = keys.iterator(); it.hasNext();) {
            String attName = ((TemplateScalarModel) it.next()).getAsString();
            Object attValue = DeepUnwrap.unwrap(attributeMap.get(attName));
            template.setCustomAttribute(attName, attValue);
        }
    } catch (TemplateModelException tme) {
    }
    else {
        throw new ParseException("Unknown FTL header parameter: " + key.image,
            key.beginLine, key.beginColumn);
    }
}
}
)
)
LooseDirectiveEnd()
)
}

Map ParamList() {
{
    Identifier id;
    Expression exp;
    Map result = new HashMap();
}
{
    (id=Identifier() <EQUALS> exp=Expression() {result.put(id.toString(), exp);} [<COMMA>] )+
    {
        return result;
    }
}

/**
 * Root production to be used when parsing
 * an entire file.
 */
TemplateElement Root() :
Found in path(s):
* /opt/cola/permits/1138554677_1614291100.56/0/freemarker-2-3-15-sources-1-jar/freemarker/core/FMParser.jj

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  * /opt/cola/permits/1138554677_1614291100.56/0/freemarker-2-3-15-sources-1.jar/freemarker/ext/beans/SimpleMemberModel.java
  * /opt/cola/permits/1138554677_1614291100.56/0/freemarker-2-3-15-sources-1.jar/freemarker/ext/beans/OverloadedVarArgMethod.java
  * /opt/cola/permits/1138554677_1614291100.56/0/freemarker-2-3-15-sources-1.jar/freemarker/ext/beans/MethodUtilities.java

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<xsd:enumeration value="CONFIDENTIAL"/>

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  * /opt/cola/permits/1138554677_1614291100.56/0/freemarker-2-3-15-sources-1-jar/freemarker/ext/jsp/webapp_2_4.xsd

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1.640 spring-test 4.1.7.RELEASE

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* /opt/cola/permits/1158685588_1619822724.36/0/spring-test-4-1-7-release-sources-2-jar/org/springframework/test/web/servlet/setup/DefaultMockMvcBuilder.java
* /opt/cola/permits/1158685588_1619822724.36/0/spring-test-4-1-7-release-sources-2-jar/org/springframework/mock/jndi/SimpleNamingContextBuilder.java
* /opt/cola/permits/1158685588_1619822724.36/0/spring-test-4-1-7-release-sources-2-jar/org/springframework/mock/jndi/SimpleNamingContextBuilder.java
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* /opt/cola/permits/1158685588_1619822724.36/0/spring-test-4-1-7-release-sources-2-
1.641 apacheds-jdbm-store 1.5.1

1.642 glib-networking 2.42.0-1.el7
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`jar/org/springframework/security/web/authentication/preauth/j2ee/J2eePreAuthenticatedProcessingFilter.java`

`jar/org/springframework/security/web/authentication/preauth/j2ee/J2eeBasedPreAuthenticatedWebAuthenticationDetailsSource.java`

`jar/org/springframework/security/web/authentication/preauth/x509/package-info.java`

`jar/org/springframework/security/web/authentication/preauth/websphere/WebSpherePreAuthenticatedWebAuthenticationDetailsSource.java`

`jar/org/springframework/security/web/authentication/preauth/PreAuthenticatedCredentialsNotFoundException.java`

`jar/org/springframework/security/web/authentication/preauth/PreAuthenticatedGrantedAuthoritiesUserDetailsService.java`

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`jar/org/springframework/security/web/authentication/rememberme/PersistentRememberMeToken.java`

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`jar/org/springframework/security/web/authentication/preauth/j2ee/J2eeBasedPreAuthenticatedWebAuthenticationDetailsSource.java`

`jar/org/springframework/security/web/authentication/logout/HttpStatusReturningLogoutSuccessHandler.java`

`jar/org/springframework/security/web/authentication/logout/SimpleUrlLogoutSuccessHandler.java`

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`jar/org/springframework/security/web/context/SaveContextOnUpdateOrErrorResponseWrapper.java`

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* /opt/ws_local/PERMITS_SQL/1085366108_1598963143.67/0/spring-security-web-4-2-9-release-sources-1-jar/org/springframework/security/web/jackson2/WebJackson2Module.java

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Jean-loup Gailly  Mark Adler
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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1.661 postgresql 42.2.5.jre7
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
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  jar/com/thoughtworks/xstream/annotations/XStreamConverters.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
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  jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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  jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java
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 * com.thoughtworks.xstream.converters.reflectoin.
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Found in path(s):
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/persistence/XmlArrayList.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/AbstractDriver.java
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  jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java
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  jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1.4.6-sources-1.jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1.4.6-sources-1.jar/com/thoughtworks/xstream/converters/SingleValueConverter.java
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jar/com/thoughtworks/xstream/io/xml/StaxDriver.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
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jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
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  jar/com/thoughtworks/xstream/converters/extended/ISO8601DateConverter.java
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  jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamReader.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/converters/collections/package.html
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/converters/extended/package.html
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  jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/JDomReader.java
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  jar/com/thoughtworks/xstream/core/util/FastStack.java
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  jar/com/thoughtworks/xstream/annotations/XStreamAliasType.java
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  jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java
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  jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java
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  jar/com/thoughtworks/xstream/core/ClassLoaderReference.java
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  jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java
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Found in path(s):
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java

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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java

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jar/com/thoughtworks/xstream/io/StreamException.java
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jar/com/thoughtworks/xstream/io/ReaderWrapper.java
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jar/com/thoughtworks/xstream/io/xml/DocumentReader.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java
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  jar/com/thoughtworks/xstream/io/xml/XomDriver.java
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  jar/com/thoughtworks/xstream/converters/reflection/ReflectionProvider.java
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  jar/com/thoughtworks/xstream/io/AbstractReader.java
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Found in path(s):
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  jar/com/thoughtworks/xstream/io/xml/Dom4JDriver.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/Dom4JXmlWriter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/path/PathTracker.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/Dom4JReader.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
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jar/com/thoughtworks/xstream/core/util/PresortedMap.java
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jar/com/thoughtworks/xstream/core/util/ThreadSafePropertyEditor.java
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jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java
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Found in path(s):
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/InitializationException.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/XStreamException.java

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Found in path(s):
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java

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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/io/AttributeNameIterator.java

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  jar/com/thoughtworks/xstream/converters/basic/NullConverter.java
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  jar/com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java
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jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
 * /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/mapper/DynamicProxyMapper.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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jar/com/thoughtworks/xstream/converters/extended/SqlTimestampConverter.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
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Found in path(s):
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java
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  jar/com/thoughtworks/xstream/io/AbstractWriter.java
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  jar/com/thoughtworks/xstream/converters/javabean/ComparingPropertySorter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
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  jar/com/thoughtworks/xstream/io/binary/BinaryStreamReader.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/mapper/DefaultImplementationsMapper.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
  jar/com/thoughtworks/xstream/core/util/Primitives.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java
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jar/com/thoughtworks/xstream/converters/extended/FontConverter.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/converters/reflection/SortableFieldKeySorter.java
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/**
 * A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
 * {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
 * SAX event flow from the XStream serialization of a list of list of Java objects.
 * <p>
 * As a
 * custom SAX parser, this class ignores the arguments of the two standard parse methods
 * ({@link #parse(java.lang.String)}) and ({@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
 * {@link #SOURCE_OBJECT_LIST_PROPERTY} to define the list of objects to serialize.
 * </p>
 * <p>
 * Configuration of this SAX parser is achieved through the standard
 * '{@link #setProperty SAX property mechanism}'. While specific setter methods require direct
 * access to the parser instance, SAX properties support configuration settings to be propagated
 * through a chain of '{@link org.xml.sax.XMLFilter filters} down to the underlying parser
 * object.
 * </p>
 * <p>
 * This mechanism shall be used to configure the
 * '{@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized}' as well as the
 * '{@link #CONFIGURED_XSTREAM_PROPERTY XStream facade}'.
 * </p>

*/

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Sets the value of a property.

The property name is any fully-qualified URI. It is possible for an XMLReader to recognize a property name but to be unable to set its value.

XMLReaders are not required to recognize setting any specific property names, though a core set is provided with SAX2.

Some property values may be immutable or mutable only in specific contexts, such as before, during, or after a parse.

This method is also the standard mechanism for setting extended handlers.

Note: This implementation only supports two (proprietary) properties: `#CONFIGURED_XSTREAM_PROPERTY` and `#SOURCE_OBJECT_LIST_PROPERTY`.

@param name the property name, which is a fully-qualified URI.
@param value the requested value for the property.
@throws SAXNotRecognizedException when the XMLReader does not recognize the property name.
@throws SAXNotSupportedException when the XMLReader recognizes the property name but cannot set the requested value.
@see #getProperty

** Parses an XML document from a system identifier (URI).

This method is a shortcut for the common case of reading a document from a system identifier. It is the exact equivalent of the following:

```
parse(new InputSource(systemId));
```

If the system identifier is a URL, it must be fully resolved by the application before it is passed to the parser.
<p>Note: As a custom SAX parser, this class ignores the systemId argument of this method and relies on the proprietary SAX property { @link #SOURCE_OBJECT_LIST_PROPERTY }) to define the list of objects to serialize.</p>

@throws SAXException Any SAX exception, possibly wrapping another exception.

@see #parse(org.xml.sax.InputSource)

*/

Found in path(s):
* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1-
jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java
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  jar/com/thoughtworks/xstream/io/xml/SjsxpDriver.java
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  jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1.4.6-sources-1-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java
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* /opt/cola/permits/1003537510_1607460407.76/0/xstream-1-4-6-sources-1.jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
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* /opt/ws_local/PERMITS_SQL/1025582885_1594434563.29/0/mule-module-reboot-3-6-1-sources-jar/org/mule/module/reboot/MuleContainerSystemClassLoader.java
* /opt/ws_local/PERMITS_SQL/1025582885_1594434563.29/0/mule-module-reboot-3-6-1-sources-jar/org/mule/module/reboot/MuleContainerBootstrap.java
* /opt/ws_local/PERMITS_SQL/1025582885_1594434563.29/0/mule-module-reboot-3-6-1-sources-jar/org/mule/module/reboot/MuleContainerBootstrapUtils.java
* /opt/ws_local/PERMITS_SQL/1025582885_1594434563.29/0/mule-module-reboot-3-6-1-sources-jar/org/mule/module/reboot/MuleContainerWrapper.java
* /opt/ws_local/PERMITS_SQL/1025582885_1594434563.29/0/mule-module-reboot-3-6-1-sources-jar/org/mule/module/reboot/MuleContainerWrapperLoader.java
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 */

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

@author Ben Alex

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/opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1-jar/org/springframework/security/access/intercept/AfterInvocationManager.java

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

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jar/org/springframework/security/authentication/AccountExpiredException.java
* /opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1-
jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java
* /opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1-
jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java
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* /opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1.jar/org/springframework/security/crypto/keygen/KeyGenerators.java
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/**
* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.
*
* @author Alan Stewart
*/

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* /opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1-jar/org/springframework/security/authentication/encoding/Md4.java
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/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be checked. May be null in which case implementations should return false, as the null condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

Found in path(s):
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/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
 * See &lt;a href="http://iharder.net/base64">http://iharder.net/base64&lt;/a&gt; for more information.
 * <p>
 * For internal use only.
 *
 * @author Luke Taylor
 * @since 3.0
 */

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* /opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1-jar/org/springframework/security/crypto/codec/Base64.java
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* /opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1-
  jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1071051218_1594820399.82/0/spring-security-core-3-1-0-release-sources-1-
  jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java

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1.679 mule-core 3.6.1

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### *-makefile-*

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files

GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

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

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

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

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

## Dependency rules

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

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

## Versioned libraries rules
%.S(SO),$(SO_TARGET_VERSION_MAJOR): %.S(SO),$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.S(SO): %.S(SO),$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $({F}.S(SO),$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

### 1.686 spring-context-support

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* /opt/cola/permits/1158685393_1619822680.71/0/spring-context-support-3-2-10-release-sources-1-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
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 * /opt/cola/permits/1158685393_1619822680.71/0/spring-context-support-3-2-10-release-sources-1-jar/org/springframework/mail/javamail/MimeMessageHelper.java
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 * /opt/cola/permits/1158685393_1619822680.71/0/spring-context-support-3-2-10-release-sources-1-jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java

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jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
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jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java
* /opt/cola/permits/1158685393_1619822680.71/0/spring-context-support-3-2-10-release-sources-1-
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1.690 spring-security-web 3.1.0.RELEASE
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*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java
*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/org/springframework/security/web/jaasapi/JaasApiIntegrationFilter.java
*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/org/springframework/security/web/util/ELRequestMatcher.java
*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/org/springframework/security/web/util/RequestMatcherEditor.java

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*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/springframework/security/web/session/HttpSessionEventPublisher.java
*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/springframework/security/web/authentication/AuthenticationEntryPoint.java
*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/springframework/security/web/servletapi/SecurityContextHolderAwareRequestFilter.java
*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-jar/springframework/security/web/FilterInvocation.java
*/opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-
jar/org/springframework/security/web/access/channel/InsecureChannelProcessor.java
* /opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-
jar/org/springframework/security/web/authentication/WebAuthenticationDetailsSource.java
* /opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-
jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestWrapper.java
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* /opt/ws_local/PERMITS_SQL/1071051197_1594820407.25/0/spring-security-web-3-1-0-release-sources-1-
jar/org/springframework/security/web/authentication/www/DigestAuthenticationFilter.java
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jar/org/springframework/security/web/util/ELRequestMatcherContext.java
1.691 libjpeg 9c

1.691.1 Available under license:

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jutils.c
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/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcprepct.c
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 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 */
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdbmp.c

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/*
 * ckconfig.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/ckconfig.c

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/*
 * jchuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

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/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

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/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/
INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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

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   using one of the supplied jconfig and makefile files
by hand
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Testing the software
Installing the software
Optional stuff
Optimization
Hints for specific systems

BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
==========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files. If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.
Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  `./configure --disable-shared`
  If you want to build libjpeg only as a shared library, say
  `./configure --disable-static`
Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  `./configure CC='cc'`
  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  `./configure CC='cc -Aa'`
  to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  `./configure CFLAGS='-O2'`
  if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IIG software's internal virtual memory mechanism. To do this, give the option 
  "--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
  This is discussed in more detail under "Selecting a memory manager", below.
  You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
============================================================================

If you have one of these systems, you can just use the provided configuration files:
Makefilejconfig file
System and/or compiler

makefile.manxjconfig.manxAmiga, Manx Aztec C
makefile.sasjconfig.sasAmiga, SAS C
makeproj.macjconfig.macApple Macintosh, Metrowerks CodeWarrior
mak*jpeg.stjconfig.stAtari ST/STE/TT, Pure C or Turbo C
makefile.bccjconfig.bccMS-DOS or OS/2, Borland C
makefile.djjconfig.djMS-DOS, DJGPP (Delorie’s port of GNU C)
makefile.mc6jconfig.mc6MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.watMS-DOS, OS/2, or Windows NT, Watcom C
makefile.vcjconfig.vcWindows, MS Visual C++
makefile.vsjconfig.vcWindows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vsjconfig.vcWindows, Visual Studio 2017 (v15)
make*.v15
makefile.b32jconfig.vcWindows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig.vmsDigital VMS, with MMS software
makefile.vmsjconfig.vmsDigital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or
whatever your system uses as the standard makefile name). For more info see
the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
---------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C,
the comments in jconfig.txt should be enough information to do this; just
copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may
prefer to use the ckconfig.c program. You will need to compile and execute
ckconfig.c by hand --- we hope you know at least enough to do that.
ckconfig.c may not compile the first try (in fact, the whole idea is for it
to fail if anything is going to). If you get compile errors, fix them by
editing ckconfig.c according to the directions given in ckconfig.c. Once
you get it to run, it will write a suitable jconfig.h file, and will also
print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a
system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system
uses as the standard makefile name). The most generic makefiles we provide
are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put “#define HAVE_PROTOTYPES”
in jconfig.h.) You may want to start from one of the other makefiles if
Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

**Command line style**

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

**Selecting a memory manager**

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-) ) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient
memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=======================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
======================

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary
If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run cknfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.
If you generated a Makefile with the "configure" script, you can just say make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying make -n install
to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files
jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.
If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to
work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.
Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone’s output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpek on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add
"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change
the default, you should redefine JDCT_FASTEST, which is the method selected
by djpeg's -fast switch. Don't forget to update the documentation files
(usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to
define type JCOEF as int rather than short. This will cost a good deal of
memory though, particularly in some multi-pass modes, so don't do it unless
you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE
macro in jmorecfg.h is defined as the keyword that marks a function
in-line-able. Some compilers have a switch that tells the compiler to inline
any function it thinks is profitable (e.g., -inline-functions for gcc).
Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler,
and experimenting with any optional optimizations such as loop unrolling.
(Unfortunately, far too many compilers have optimizer bugs ... be prepared to
back off if the code fails self-test.) If you do any experimentation along
these lines, please report the optimal settings to jpeg-info@jpegclub.org so
we can mention them in future releases. Be sure to specify your machine and
compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit
'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong
about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of
makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the
lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h'
Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOATUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdipgcom and wrjpcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the
space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

```
#pragma novector
```

just before the loop

```c
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).

[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```bash
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the command() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
JPEG under System 7 and later. This only illustrates how to use the
compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and
the library's API has changed considerably since then. Still it may be of
some help, particularly as a guide to compiling the IJG code under Think C.
Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu
or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses
NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific
implementation of jpeg_mem_available(). It also creates temporary files that
follow Mac conventions. (That part of the code relies on System-7-or-later OS
functions. See the comments in jmemmac.c if you need to run it on System 6.)
NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger
than available memory. If you use any memory manager back end other than
jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and
"DisposePtr", because Mac C libraries often have peculiar implementations of
malloc/free. (For instance, free() may not return the freed space to the
Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c
already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND.
You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout.
This means that when using the cjpeg/djpeg programs, you'll have to type the
input and output file names in the "Arguments" text-edit box, rather than
using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would
eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended
float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power
of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h;
it includes all the recommended symbol definitions. If you have AppleScript
installed, you can run the supplied script makeproj.mac to create CodeWarrior
project files for the library and the testbed applications, then build the
library and applications. (Thanks to Dan Sears and Don Agro for this nifty
hack, which saves us from trying to maintain CodeWarrior project files as part
of the IJG distribution...)
Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible.
It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:
Be sure to convert all the source files to DOS text format (CR/LF newlines).
Although Borland C will often work OK with unmodified Unix (LF newlines)
source files, sometimes it will give bogus compile errors.
"Illegal character "#" is the most common such error. (This is true with
Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.bcc already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

MS-DOS, Microsoft C:
makedefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only
be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called
"makefile". If you want to call it something else, say "makefile.mak",
be sure to adjust the dependency line that reads "$(RFILE) : makefile".
Otherwise the make will fail because it doesn't know how to create "makefile".
Worse, some releases of Microsoft's make utilities give an incorrect error
message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error
because they can't cope with the macro TRACESMS8 (defined in jerror.h).
If this happens to you, the easiest solution is to change TRACESMS8 to
expand to nothing. You'll lose the ability to dump out JPEG coefficient
tables with djep -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn
off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it
still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ...
which is on by default. To work around this bug, compile that one file
with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char".
The IJG code also defines typedef boolean, but we make it an "enum" by default.
This doesn't affect the IJG programs because we don't import those Windows
include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifdef FAR"/#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s
", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE.Windows.MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)
The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you’ll need to put

```c
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you’d have to use huge memory model, which slows things down unnecessarily.)

jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn’t provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don’t try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn’t true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don’t work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You’ll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you’ll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:
#define GLOBAL(type) 		type __declspec(dllexport) _far _pascal _loadds _export
#define EXTERN(type) 		extern __declspec(dllexport) type _far _pascal _loadds
#define METHODDEF(type) 		static type _far _pascal
#define JMETHOD(type, methodname, arglist)  
	(type (_far _pascal *methodname) arglist)

For a 32-bit DLL you may want something like
#define GLOBAL(type)__declspec(dllexport) type
#define EXTERN(type)__declspec(dllexport) type

Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):

/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:

- Ot -Og
- Ot -Op
- Ot -Om

So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IIG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" [ ... ] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IIG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs  setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files. (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project. (If you are using Developer Studio more recent than 6.0, you’ll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs  test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IIG library as a static Win32 library, and application makefiles that build
the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   \texttt{NMAKE /f makefile.vs setup-v15}
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section;
   we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   \texttt{NMAKE /f makefile.vs test-build}
5. Move the application .exe files from `app\Release` to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
\texttt{./configure RANLIB='ar -ts'}
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:
On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmainct.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpegint.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jerror.c

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

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.3 in the JPEG spec (D.2 in the draft),
 * ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
 */
Open Source Used In Cisco Vision Dynamic Signage Director 6.4  7995

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jaricom.c

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

/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for
 * direct resolution reduction or enlargement and for direct resolving the
 * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
 * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of
 * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
 * to yield the downscaled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain
 * point of view rather than the usual spatial domain point of view,
 * yielding significant computational savings and results at least
 * as good as common bilinear (averaging) spatial downsampling.
 *
 * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
 * lower frequencies and higher frequencies assumed to be zero.
 * It turns out that the computational effort is similar to the 8x8 IDCT
 * regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctint.c

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

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
--------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

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

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

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

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager",
which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
===================

Data formats
Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)
The data format returned by the decompressor is the same in all details, except that color-mapped output is supported. (Again, a JPEG file is never color-mapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver color-mapped output.) If you request color-mapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

   A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

   You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

   You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

   Typical code for this step, if you are using the default error handler, is

   struct jpeg_compress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_compress(&cinfo);
2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** It is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions
of 1 to 64K pixels in either direction. The input color space is typically
RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special
color spaces", later, for more info.) The in_color_space field must be
assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or
JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the
image is encoded. Most applications don't need or want to know about all
these parameters. You can set all the parameters to reasonable defaults by
calling jpeg_set_defaults(); then, if there are particular values you want
to change, you can do so after that. The "Compression parameter selection"
section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(),
because the defaults depend on the source image colorspace. However the
other three source image parameters need not be valid until you call
jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more
than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary
source image info and other parameters, call jpeg_start_compress() to begin
a compression cycle. This will initialize internal state, allocate working
storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream
will be written. This is appropriate in most cases. If you think you might
want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
   row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
   jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdout destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don’t forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type
of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination().
(See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.
Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.
Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.
Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- output_width: image width and height, as scaled
- output_height
- out_color_components: # of color components in out_color_space
- output_components: # of color components returned per pixel
- colormap: the selected colormap, if any
- actual_number_of_colors: number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.
8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new
version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorsapce() before rather than after.

**jpeg_default_colorsapce (j_compress_ptr cinfo)**
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorsapce(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

**jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)**
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

**jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)**
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

**int jpeg_quality_scaling (int quality)**
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

**jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)**
Set default quantization tables with linear q_scale_factor[] values (see below).
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
   const unsigned int *basic_table,
   int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above). (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorsant() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9). Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN. Set this value for lossless RGB application *before* calling jpeg_set_colorsant(), because entropy table assignment in jpeg_set_colorsant() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate
color quality selection, since the default value used by library
is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.
int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection
-------------------------------

Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width	Width and height of image
JDIMENSION image_height
int num_components	Number of color components
J_COLOR_SPACE out_color_space	Output color space. jpeg_read_header() sets an appropriate default
based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdc色彩.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)
When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components. If FALSE, use only DCT size <= 8 and simple separate upsampling. Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.
The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <-> YCbCr and CMYK <-> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.
For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given
by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color
space depending on in_color_space, but you can override this by calling
jpeg_set_colorspace(). Of course you must select a supported transformation.
jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- RGB => BG_YCC
- YCbCr => GRAYSCALE
- YCbCr => BG_YCC
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure
that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange standards.
jpeg_set_colorspace() will set the compression parameters to include or omit
the APPn markers properly, so long as it is told the truth about the JPEG
color space. For example, if you are writing some random 3-component color
space without conversion, don't try to fake out the library by setting
in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.
You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
- BG_YCC => RGB
- BG_YCC => GRAYSCALE
- RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You’ll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you’d expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot “fix” this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.
Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart(j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmaker.c if you think you'd like to implement your own resync procedure.

term_source(j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOI's. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-----------
Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends
operation and returns to its caller. The surrounding application is
responsible for emptying or refilling the work buffer before calling the
JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns
FALSE; typically it will not do anything else. This will cause the
compressor to return to the caller of jpeg_write_scanlines(), with the return
value indicating that not all the supplied scanlines have been accepted.
The application must make more room in the output buffer, adjust the output
buffer pointer/count appropriately, and then call jpeg_write_scanlines()
again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping
point (usually the start of the current MCU); it will regenerate some output
data when restarted. Therefore, although empty_output_buffer() is only
called when the buffer is filled, you should NOT write out the entire buffer
after a suspension. Write only the data up to the current position of
next_output_byte/free_in_buffer. The data beyond that point will be
regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential
for efficiency; you don't want the compressor to suspend often. (In fact, an
overly small buffer could lead to infinite looping, if a single MCU required
more data than would fit in the buffer.) We recommend a buffer of at least
several Kbytes. You may want to insert explicit code to ensure that you don't
call jpeg_write_scanlines() unless there is a reasonable amount of space in
the output buffer; in other words, flush the buffer before trying to compress
The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of more data.
new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked
list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.)

When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's
Buffered-image mode

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In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.
The first of these benefits only requires interspersing calls to `jpegconsume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpegconsume_input()` only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call `jpegconsume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpegstart_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpegstart_output()`: call `jpegconsume_input()` repeatedly until it returns `JPEG_SUSPENDED` or `JPEG_REACHED_EOI`.

The target scan number passed to `jpegstart_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpegconsume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpegstart_decompress()` does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpegconsume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the
buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().

For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output().

This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.

2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
   These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

enable_1pass_quant
Fixed color cube colormap
enable_2pass_quant
Application-supplied colormap
enable_2pass_quant_2
Two-pass colormap

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 8040
enable_external_quant
externally-supplied colormap
enable_2pass_quant
two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
   colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.
NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream.
containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
    if (cinfo.quant_tbl_ptrs[n] == NULL)
        cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
    quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL*/
    for (i = 0; i < 64; i++) {
        /* Qtable[] is desired quantization table, in natural array order */
        quant_ptr->quantval[i] = Qtable[i];
    }
```
Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(); it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn’t flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you’d need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types “COM” (comment) and “APP0” through “APP15” (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string “Adobe” for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It’s probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but
we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.
For either method, you’d normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you’ve established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

```
jpeg_save_markers(cinfo, marker_code, length_limit)
```

where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn’t ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than
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65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
-------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampling data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampling image data, in which not all components have the same dimensions.
To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorsace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks*block_size samples per row
cinfo->comp_info[i].height_in_blocks*block_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than block_size samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampling_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.
You must deal with the color space and sampling factors present in the
incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real
downsampled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.
jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return
NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like
Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter; /* work units completed in this pass */
- long pass_limit; /* total number of work units in this pass */
- int completed_passes; /* passes completed so far */
- int total_passes; /* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of 
passes is in total_passes, and the number of passes already completed is in 
completed_passes. Thus the fraction of work completed may be estimated as 
completed_passes + (pass_counter/pass_limit) 
--------------------------------------------
total_passes 
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it 
depends on the number of scans in the JPEG file, which isn't always known in 
advance. The computed fraction-of-work-done may jump suddenly (if the library 
discovers it has overestimated the number of scans) or even decrease (in the 
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work 
estimate is likely to be completely unhelpful, because the library has no way 
to know how many output passes will be demanded of it. Currently, the library 
sets total_passes based on the assumption that there will be one more output 
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't 
TRUE), but no more output passes if the file end has been reached when the 
output pass is started. This means that total_passes will rise as additional 
output passes are requested. If you have a way of determining the input file 
size, estimating progress based on the fraction of the file that's been read 
will probably be more useful than using the library's value.

Memory management

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

This section covers some key facts about the JPEG library's built-in memory 
manager. For more info, please read structure.txt's section about the memory 
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the 
memory manager. If necessary, you can replace the "back end" of the memory 
manager to control allocation yourself (for example, if you don't want the 
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG 
object is destroyed. Most data is allocated "per image" and is freed by 
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the 
memory manager yourself to allocate structures that will automatically be 
freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size); 
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. 
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. 
There are also alloc_sarray and alloc_barray routines that automatically 
built 2-D sample or block arrays.
The library’s minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays"; only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmennobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmennobs.c, and shouldn't be necessary with jmennansi.c or jmennmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.

2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The “fixed-size” data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data
only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision.
If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMS{n}() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?
Portability considerations

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.
The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmoredcfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). You have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (e.g., about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you
can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/libjpeg.txt
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
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This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

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

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

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image
formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

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

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

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

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

*** Portability issues ***

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

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

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

*** System overview ***

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

Looking more closely, the compressor library contains the following main elements:

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

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

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

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

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

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

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

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

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

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

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

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastd.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

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

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

*** Overall control structure ***

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

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

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

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

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

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

   Each buffer controller sees the world as follows:

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

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

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

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

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

*** Compression object structure ***

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

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

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

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

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

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

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

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

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

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

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.
* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

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

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

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

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

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

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

*** Decompression object structure ***

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

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

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:
1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

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

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

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

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

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

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

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

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

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

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

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.
Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

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

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

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

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

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

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

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when
compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

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

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

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

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

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

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

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

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

*** Memory manager services ***

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

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

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

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

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

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

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

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

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

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

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

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

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

*** Memory manager internal structure ***

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

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)
jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

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

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

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

*** Implications of DNL marker ***

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

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.
In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

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

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

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/structure.txt
  No license file was found, but licenses were detected in source scan.

/*
 jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmainct.c
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/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

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* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/rdppm.c

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

/*
* jdmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdmarker.c

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

/*
* cjpeg.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
  compile-time switch TWO_FILE_COMMANDLINE:
  *cjpeg [options] inputfile outputfile
  *cjpeg [options] [inputfile]
  * In the second style, output is always to standard output, which you'd
  * normally redirect to a file or pipe to some other program. Input is
  * either from a named file or from standard input (typically redirected).
  * The second style is convenient on Unix but is unhelpful on systems that
  * don't support pipes. Also, you MUST use the first style if your system
  * doesn't do binary I/O to stdin/stdout.
  * To simplify script writing, the "-outfile" switch is provided. The syntax
  *cjpeg [options] -outfile outputfile inputfile
  * works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/transupp.c
No license file was found, but licenses were detected in source scan.

/*
 * cerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/cderror.h
No license file was found, but licenses were detected in source scan.

/ *
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdtrans.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
 * Also, this code will NOT work if struct fields are aligned on greater than
 * 2-byte boundaries.
 *
 * Based on code contributed by Ge' Weijers.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeft.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdcoeft.c

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

/*
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdhuff.c

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

/*
 * jfdctfst.c
 *

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 8086
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column.  Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT.  Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README).  The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs.  These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries.  The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values.  The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
* /

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/
Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jquant1.c
No license file was found, but licenses were detected in source scan.

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

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

Found in path(s):
*/opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

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

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

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

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

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

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

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

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

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

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

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters. */
/* #undef NEED_SHORT_EXTERNAL_NAMES */
/* Although a real ANSI C compiler can deal perfectly well with pointers to
unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
actually get ’missing structure definition’ warnings or errors while
compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define “boolean” as unsigned char, not enum, on Windows systems. */
#ifndef _WIN32
#ifndef __RPCNDR_H__ /* don’t conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
ifndef FALSE /* in case these macros already exist */
define FALSE 0 /* values of boolean */
#endif
ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

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

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

#endif /* JPEG_INTERNALS */

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

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

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

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

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

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

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

#endif /* JPEG_CJPEG_DJPEG */
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be \( (v\_samp\_factor \times DCT\_v\_scaled\_size / \text{min}\_DCT\_v\_scaled\_size) \)
* sample rows of each component. Upsampling will normally produce
* \( \text{max}\_v\_samp\_factor \) pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
/***/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers

* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdct.h
No license file was found, but licenses were detected in source scan.

/*
* jdc1or.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,   *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                   *
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

*/
*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input colorspace conversion routines.
* */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* This code contributed by James Arthur Boucher.
* */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
* 
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
* */
jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr instead of malloc and free. It accurately determines the amount of memory available by using CompactMem. Notice that if left to its own devices, this code can chew up all available space in the application's zone, with the exception of the rather small "slop" factor computed in jpeg_mem_available(). The application can ensure that more space is left over by reducing max_memory_to_use.

Large images are swapped to disk using temporary files and System 7.0+'s temporary folder functionality.

Note that jmemmac.c depends on two features of MacOS that were first introduced in System 7: FindFolder and the FSSpec-based calls. If your application uses jmemmac.c and is run under System 6 or earlier, and the jpeg library decides it needs a temporary file, it will abort, printing error messages about requiring System 7. (If no temporary files are created, it will run fine.)

If you want to use jmemmac.c in an application that might be used with System 6 or earlier, then you should remove dependencies on FindFolder and the FSSpec calls. You will need to replace FindFolder with some other mechanism for finding a place to put temporary files, and you should replace the FSSpec calls with their HFS equivalents:

FSpDelete -> HDelete
FSpGetFInfo -> HGetFInfo
FSpCreate -> HCreate
FSpOpenDF -> HOpen *** Note: not HOpenDF ***
FSMakeFSSpec -> (fill in spec by hand.)

(Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen, which is on all HFS macs. HOpenDF is a System 7 addition which avoids the ages-old problem of names starting with a period.)

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).
* For conditions of distribution and use, see the accompanying README file.

* This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.

* The major functions provided here are:
  * pool-based allocation and freeing of memory;
  * policy decisions about how to divide available memory among the virtual arrays;
  * control logic for swapping virtual arrays between main memory and backing storage.

* The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.

* This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...)

*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemmgr.c

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

/
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinarystdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*
* Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djepg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
=================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed
for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The
other include files are intended for internal use and would not normally
be included by an application program. (cjpeg/djpeg/etc do use jinclude.h,
since its function is to improve portability of the whole IJG distribution.
Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jc{}apimin.c Application program interface: core routines for compression.
jc{}apistd.c Application program interface: standard compression.
jd{}apimin.c Application program interface: core routines for decompression.
jd{}apisd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jcp{}aram.c Compression parameter setting helper routines.
jetrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jc{}init.c Initialization: determines which other modules to use.
jem{}aster.c Master control: setup and inter-pass sequencing logic.
jcm{}ainct.c Main buffer controller (preprocessor => JPEG compressor).
jcp{}repcct.c Preprocessor buffer controller.
jcoe{}ct.c Buffer controller for DCT coefficient buffer.
jc{}olor.c Color space conversion.
jc{}sample.c Downsampling.
jdc{}tmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jc{}marker.c JPEG marker writing.
jdat{}dst.c Data destination managers for memory and stdout output.

Decompression side of the library:

jdm{}aster.c Master control: determines which other modules to use.
jd{}input.c Input controller: controls input processing modules.
jdm{}ainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdm{}arker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jdd{}tmgr.c IDCT manager (IDCT implementation selection & control).
jidctint.c: Inverse DCT using slow-but-accurate integer method.
jidctfst.c: Inverse DCT using faster, less accurate integer method.
jidctflt.c: Inverse DCT using floating-point arithmetic.
dsmaple.c: Upsampling.
dcolor.c: Color space conversion.
dmerge.c: Merged upsampling/color conversion (faster, lower quality).
jquant1.c: One-pass color quantization using a fixed-spacing colormap.
jquant2.c: Two-pass color quantization using a custom-generated colormap.
   Also handles one-pass quantization to an externally given map.
ddatasrc.c: Data source managers for memory and stdio input.

Support files for both compression and decompression:

jicom.c: Tables for common use in arithmetic entropy encoding and decoding routines.
jer.c: Standard error handling routines (application replaceable).
jemmgr.c: System-independent (more or less) memory management code.
jutil.c: Miscellaneous utility routines.

jemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemobs.c: "No backing store": assumes adequate virtual memory exists.
jemansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jemname.c: Makes temporary files with program-generated file names.
jemdos.c: Custom implementation for MS-DOS (16-bit environment only):
   can use extended and expanded memory as well as temp files.
jemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jemdosa.asm: 80x86 assembly code support for jemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJpeg/DJpeg/JPEG TRAN

Include files:

cjpeg.h: Declarations shared by cjpeg/djpeg/jpegtran modules.
C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdsswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rdppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrarle.c Utah RLE file output.
wrutarga.c Targa file output.

RDJPGCOM/WRJPGCOM
===================

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjjpgcom.c Stand-alone wrjjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):
README

Master documentation file.

*.txt Other documentation files.

*.1 Documentation in Unix man page format.

change.log Version-to-version change highlights.

test*.txt Source and comparison files for confidence test.

These are binary image files, NOT text files.

Found in path(s):

* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/filelist.txt

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

/*

* jfdctflt.c
*

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jfdctflt.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
* jdarith.c
*
* Developed 1997-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy decoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdarith.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
==============================================

README for release 9c of 14-Jan-2018
==============================================

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

IJJ is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJJ 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.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJJ releases.

Other documentation files in the distribution are:

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

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

Please read at least the files install.txt and usage.txt. Some 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 encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

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. 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 "rdjppcom" and "wrjppcom", 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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==============

In plain English:

1. We don't promise that this software works. (But if you find any bugs,
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a
   program, you must acknowledge somewhere in your documentation that
   you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS", and you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived from
it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

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,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium.
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

REFERENCES

We 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 PDF file containing a revised version of Wallace's article is available at http://www.injg.org/files/Wallace.jpg.pdf. 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 best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential
of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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 http://www.iijg.org/files/. 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.

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

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijc.org site.

Thank to Thomas G. Lane for the original design and development of
this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

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

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.

One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and
legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement.

IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/README

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

/ *
* jdapimin.c
 *
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
  */opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jdapimin.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
  */opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*/  
*jf dctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.  
* This file is part of the Independent JPEG Group's software.  
* For conditions of distribution and use, see the accompanying README file.  
* This file contains a slow-but-accurate integer implementation of the  
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

* This implementation is based on an algorithm described in
  * The primary algorithm described there uses 11 multiplies and 29 adds.
  * We use their alternate method with 12 multiplies and 32 adds.
  * The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in
    * scaled fixed-point arithmetic, with a minimal number of shifts.
  * We also provide FDCT routines with various input sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: NxN (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.

* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing just the lower 8 frequency coefficients and discarding the rest.

* We must scale the output coefficients of the N-point FDCT appropriately to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling is folded into the constant multipliers (pass 2) and/or final/initial shifting.

* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.

*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/jpeg-9c-master-zip/jpeg-9c-master/jfdctint.c

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

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

Found in path(s):
*/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdrle.c

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

/*
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables fileRead quantization tables from text file
* -scans fileRead scan script from text file
* -quality N[,N,...]Set quality ratings
* -qslots N[,N,...]Set component quantization table selectors
* -sample HxV[,HxV,...]Set component sampling factors
*/

Found in path(s):
*/opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/rdswitch.c

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

/*
* djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
*djepg [options] inputfile outputfile
*djepg [options] [inputfile]
  * In the second style, output is always to standard output, which you'd
  * normally redirect to a file or pipe to some other program. Input is
  * either from a named file or from standard input (typically redirected).
  * The second style is convenient on Unix but is unhelpful on systems that
  * don't support pipes. Also, you MUST use the first style if your system
  * doesn't do binary I/O to stdin/stdout.
  * To simplify script writing, the "-outfile" switch is provided. The syntax
  *djepg [options] -outfile outputfile inputfile
  * works regardless of which command line style is used.
  */

Found in path(s):
  */opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
  */opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
Open Source Used In Cisco Vision Dynamic Signage Director 6.4 8120

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcarith.c

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

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jerror.h

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

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 * 
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 * 
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
 * jmemansi.c
 * 
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file provides a simple generic implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemansi.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jcomapi.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
* */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/jctrans.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

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

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

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

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

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

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

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

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifndef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

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

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

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.
The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

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

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.8/0/jpeg-9c-master-zip/jpeg-9c-master/coderules.txt

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

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcparam.c

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

*/

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcinit.c

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

*/

* jversion.h
*
* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains software version identification.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jversion.h

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

*/

* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jcsample.c

No license file was found, but licenses were detected in source scan.
/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/jdatasrc.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1103525591_1607965476.80/jpeg-9c-master-zip/jpeg-9c-master/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 */
* It is also possible to use just the second pass to map to an arbitrary externally-given color map.

* Note: ordered dithering is not supported, since there isn't any fast way to compute intercolor distances; it's unclear that ordered dither's fundamental assumptions even hold with an irregularly spaced color map.

*/

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/*
* jcapimin.c
* 
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* 
* This file contains application interface code for the compression half of the JPEG library. These are the "minimum" API routines that may be needed in either the normal full-compression case or the transcoding-only case.
* 
* Most of the routines intended to be called directly by an application are in this file or in jcapistd.c. But also see jcparam.c for parameter-setup helper routines, jcomapi.c for routines shared by compression and decompression, and jctrans.c for the transcoding case.
* /

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

---

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

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 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

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/*
 * rdgif.c
1.692.1 Available under license:

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1.695 e2fsprogs 1.42.9-17.el7
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$ (BSD_LIB)

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Theodore Ts'o
23-June-2007

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

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

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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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:

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That's all there is to it!

1.699 glibc 2.17-307.el7.1

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the *Lesser* General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *Less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Otherwise, if the work is a derivative of the Library, you may
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  user can modify the Library and then relink to produce a modified
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  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/lang/SinkToGraph.java
  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/tokens/PrintTokenizer.java
  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/core/DatasetPrefixStorage.java
  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/iterator/ActionCount.java
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  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/iterator/ResultIterator.java
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  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/iterator/ResultIteratorWithPayloadUnserializable.java
  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/iterator/ResultIteratorWithPayloadUnserializableWithStateInitialisable.java
  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/iterator/ResultIteratorWithPayloadUnserializableWithStateInitialisableStateable.java
  */opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/iterator/ResultIteratorWithPayloadWithStateInitialisable.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_OneOf.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/system/ParserProfile.java

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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_StrUpperCase.java
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jar/com/hp/hpl/jena/sparql/expr/E_NumCeiling.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_StrContains.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_StrLowerCase.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_StrEndsWith.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_DateTimeYear.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_DateTimeSeconds.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_NumRound.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_NumFloor.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_StrStartsWith.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_Exists.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/system/JenaReaderTurtle2.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/lang/LangRIOT.java
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jar/com/hp/hpl/jena/sparql/algebra/optimize/TransformScopeRename.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/modify/request/UpdateModify.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/modify/request/Target.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/modify/NodeTransformBNodesToVariables.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/modify/request/UpdateBinaryOp.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/modify/UpdateEngineWorker.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/arq/iri.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/arq/trig.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/modify/request/UpdateDeleteWhere.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/RIOT.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/AtlasException.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/jena/sparql/expr/nodevalue/NumericType.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/jena/sparql/ExprTransform.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/iterator/FilterStack.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/jena/sparql/core/DatasetGraphQuad.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/system/ParserProfileBase.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/jena/sparql/SystemARQ.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/arqbuilder.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/arq/arq.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/jena/sparql/path/P_NegPropSet.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/jena/sparql/algebra/optimize/TransformExpandOneOf.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/io/InStreamASCII.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/io/CharStreamBasic.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/jena/sparql/algebra/TransformUnionQuery.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/pipeline/inf/InferenceProcessorTriples.java
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jar/com/hp/hpl/jena/sparql/engine/main/QueryEngineMainQuad.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/riotcmd/CmdLangParse.java
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// Base 64 encoder - public domain.
/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.</p>
 *<p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this: </p>
 *<code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );</code>
 *<p>to compress the data before encoding it and then making the output have no newline characters.</p>
 */
* Change Log:
* </p>
* <ul>
* <li>v2.2.2 - Fixed encodeToFile and decodeToFile to use the
* Base64.InputStream class to encode and decode on the fly which uses
* less memory than encoding/decoding an entire file into memory before writing.</li>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~< 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </ol>
* <ol>
* The default is RFC3548 format.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* in http://www.faqs.org/qa/rfc4-1940.html</li>
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>
* for contributing the new Base64 dialects.
* </ol>
* v1.2 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>.<br/>
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).</li>
* v1.5 - Output stream passes on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.</li>
* v1.4 - Added helper methods to read/write files.</li>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

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* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
* /

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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/iterator/QueryIterSub.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
  jar/com/hpl/jena/sparql/lang/rdql/Q_SelectClause.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hpl/jena/sparql/lang/rdql/Q_TriplePattern.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hpl/jena/sparql/lang/rdql/Q_PrefixesClause.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hpl/jena/sparql/lang/rdql/Q_PrefixDecl.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hpl/jena/sparql/lang/rdql/Q_Modulus.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hpl/jena/sparql/lang/rdql/Q_Add.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hpl/jena/sparql/lang/rdql/RDQLQueryPrintUtils.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hpl/jena/sparql/lang/rdql/ExprRDQL.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/engine/iterator/QueryIterProject2.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/lib/Allocator.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/util/DateTimeStruct.java

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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/RiotWriter.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/system/SyntaxLabels.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/riotcmd/json.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/lib/IRILib.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/query/QueryCancelledException.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/iterator/IteratorDelayedInitialization.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/riotcmd/printtokens.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/system/MapWithScope.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/FM2.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/riotcmd/CmdTokens.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/riotcmd/perftokens.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/riot/out/NodeToLabel.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/algebra/op/OpTopN.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/web/WebLib.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/riotcmd/utf8.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/core/assembler/GraphStoreAssembler.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/algebra/op/OpGraph.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/arq/cmdline/ModQueryOut.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/algebra/OpWalker.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/core/assembler/AssemblerUtils.java
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jar/com/hp/hpl/jena/sparql/lang/parser/ParseException.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
jar/com/hp/hpl/jena/sparql/lang/parser/Token.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
jar/com/hp/hpl/jena/sparql/lang/parser/SSE_ParserCore.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
jar/com/hp/hpl/jena/sparql/lang/parser/SSE_ParserCoreConstants.java

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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2- jar/com/hp/hpl/jena/sparql/iterator/QueryIterMinus.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2- jar/com/hp/hpl/jena/sparql/engine/main/iterator/QueryIterService.java

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/rif/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2.jar/com/hp/hpl/jena/sparql/expr/E_Function.java
/rif/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2.jar/com/hp/hpl/jena/sparql/function/FunctionBase1.java
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/rif/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2.jar/com/hp/hpl/jena/query/QueryFatalException.java
/rif/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2.jar/com/hp/hpl/jena/sparql/expr/E_Str.java
/rif/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2.jar/com/hp/hpl/jena/sparql/expr/E_Bound.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_LogicalOr.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/nodevalue/NodeValueGDay.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/E_LessThan.java
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jar/com/hp/hpl/jena/sparql/lang/arq/TokenMgrError.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
jar/com/hp/hpl/jena/sparql/lang/arq/ARQParser11.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
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* /opt/cola/permits/1158648452_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/engine/http/HttpParams.java
* /opt/cola/permits/1158648452_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/resultset/XMLOutput.java
* /opt/cola/permits/1158648452_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/query/Syntax.java
* /opt/cola/permits/1158648452_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/query/QueryVisitor.java
* /opt/cola/permits/1158648452_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/resultset/XMLResults.java

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* /opt/cola/permits/1158684852_1619822674.960/arq-2-8-8-sources-2-
  jar/com/hpl/jena/sparql/expr/E_SHA224.java
* /opt/cola/permits/1158684852_1619822674.960/arq-2-8-8-sources-2-
  jar/com/hpl/jena/sparql/expr/E_StrConcat.java
* /opt/cola/permits/1158684852_1619822674.960/arq-2-8-8-sources-2-
  jar/com/hpl/jena/sparql/expr/E_SHA1.java
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  jar/com/hpl/jena/sparql/expr/E_MD5.java
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  jar/com/hpl/jena/sparql/expr/E_SHA512.java
* /opt/cola/permits/1158684852_1619822674.960/arq-2-8-8-sources-2-
  jar/com/hpl/jena/sparql/expr/E_SHA256.java
* /opt/cola/permits/1158684852_1619822674.960/arq-2-8-8-sources-2-
  jar/com/hpl/jena/sparql/expr/E_IsNumeric.java
* /opt/cola/permits/1158684852_1619822674.960/arq-2-8-8-sources-2-
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2.jar/com/hp/hpl/jena/sparql/expr/aggregate/AggAvgDistinct.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2.jar/com/hp/hpl/jena/sparql/expr/aggregate/AggSumDistinct.java
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jar/com/hp/hpl/jena/sparql/expr/aggregate/AggMin.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/algebra/op/OpFetch.java
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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/arq/cmdline/ModDatasetGeneralAssembler.java
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jar/org/openjena/atlas/json/io/parserjavacc/javacc/JSON_ParserConstants.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
jar/org/openjena/atlas/json/io/parserjavacc/javacc/ParseException.java
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
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* /opt/cola/permissions/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/engine/iterator/QueryIterProcessBinding.java

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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-
  jar/com/hp/hpl/jena/sparql/expr/E_Coalesce.java

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* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/com/hp/hpl/jena/sparql/expr/ExprEvalTypeException.java

Found in path(s):
* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/lib/CacheFactory.java

* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/json/JsonValue.java

* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/org/openjena/atlas/lib/Lib.java

* /opt/cola/permits/1158684852_1619822674.96/0/arq-2-8-8-sources-2-jar/arq/arq/update.java
1.703 python 2.7.5-88.el7

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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.cnr.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

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

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

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2.6.5  2.6.4  2010  PSF  yes  
2.7  2.6  2010  PSF  yes  

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1.708 gstreamer 1.16.1

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jar/src/net/sf/ehcache/store/FifoMemoryStore.java
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1.721 abdera-client 0.4.0-incubating

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----
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include/GL/glxext.h
include/GL/wglxext.h:

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* /opt/cola/permits/1158685286_1619822707.96/0/spring-security-ldap-3-1-0-release-sources-2-
jar/org/springframework/security/ldap/authentication/LdapAuthenticator.java
* /opt/cola/permits/1158685286_1619822707.96/0/spring-security-ldap-3-1-0-release-sources-2-
jar/org/springframework/security/ldap/userdetails/Person.java
* /opt/cola/permits/1158685286_1619822707.96/0/spring-security-ldap-3-1-0-release-sources-2-
jar/org/springframework/security/ldap/search/FilterBasedLdapUserSearch.java
* /opt/cola/permits/1158685286_1619822707.96/0/spring-security-ldap-3-1-0-release-sources-2-
jar/org/springframework/security/ldap/userdetails/LdapUserDetailsMapper.java
* /opt/cola/permits/1158685286_1619822707.96/0/spring-security-ldap-3-1-0-release-sources-2-
jar/org/springframework/security/authorization/LdapAuthenticationProvider.java
1.748 grizzly-framework 2.3.16

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JUnit test library (junit-3.8.1.jar)

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1.750 mule-module-annotations 3.6.1

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: jenkins
Build-Jdk: 1.7.0_72
Specification-Title: Annotations
Specification-Version: 3.6.1
Specification-Vendor: MuleSoft, Inc.
Implementation-Title: Annotations
Implementation-Version: 3.6.1
Implementation-Vendor-Id: org.mule.modules
Implementation-Vendor: MuleSoft, Inc.
Build-Date: 2015-Feb-13 12:37:41
Build-Revision: b795785f
Description: Mule ESB and Integration Platform
Dev-List-Email: mule-esb@mulesoft.com
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* /opt/ws_local/PERMITS_SQL/1025582791_1594430885.84/0/mule-module-annotations-3-6-1-1-jar/META-INF/MANIFEST.MF

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1.752 jsch 0.1.50

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1.753 grabbag 1.8.1

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* /opt/ws_local/PERMITS_SQL/1025582867_1594212691.88/0/grabbag-1-8-1-sources-
jar/com/eaio/configuration/Configuration.java

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* *
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*/opt/ws_local/PERMITS_SQL/1025582867_1594212691.88/0/grabbag-1-8-1-sources-jar/com/eaio/util/Resource.java

1.754 tomcat-tribes 7.0.64
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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 [ @linkTypeReference ].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
* @param desc
  *     the class descriptor of the annotation class.
  */

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* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asn/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayLength.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/collection/MapCreator.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticReferenceAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/Union.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/Union.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessor.java
jar/org/mvel2/optimizers/impl/refl/nodes/ThisValueAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFieldAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessorNH.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/collection/ListCreator.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/ConstructorAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessorNest.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/FunctionAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/DynamicSetterAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessor.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/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
  jar/org/mvel2/asm/commons/GeneratorAdapter.java
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* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
  jar/org/mvel2/asm/util/ASMifiable.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-
  jar/org/mvel2/asm/util/Textifiable.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/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/JSRInlinerAdapter.java

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

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* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/ByteVector.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/ParameterNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/MethodNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/Context.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/ClassWriter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/FieldWriter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/Value.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/ClassVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/Frame.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/Remapper.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/signature/SignatureReader.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/LabelNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/AnnotationNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/AnnotationVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/AnnotationAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/FrameNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/analysis/Value.java
jar/org/mvel2/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/MethodVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/lineInsnNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/Opcodes.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/TreeMethodVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/ClassReader.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/SmallSet.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/Frame.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/Label.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/SourceInterpreter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/CheckFieldAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/FieldVisitor.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/treeInsnNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/util/ASMIffer.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/tree/FieldNode.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/signature/SignatureWriter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/util/Printer.java

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*/
/**
 * Creates a new {AnalyzerAdapter}. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * {AnalyzerAdapter(int, String, int, String, String, MethodVisitor)} version.
 *
 * @param owner
 *     the owner's class name.
 * @param access
 *     the method's access flags (see {Opcodes}).
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see {Type}).
 * @param mv
 *     the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */
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  * /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/xml/ASMContentHandler.java
  * /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/xml/SAXClassAdapter.java
  * /opt/cola/permits/1003537032_1612308061.07/0/mvel2-2-2-4-finalnx01-sources-jar/org/mvel2/asm/xml/SAXAnnotationAdapter.java
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/**
* Constructs a new {ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {ClassNode(int)}
* version.
*
* @throws IllegalStateException
*          If a subclass calls this constructor.
*/

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The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
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The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program
and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
Macro Packages
-------------

- The `-mdoc` macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

- The `-me` macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meref.me

Hyphenation Patterns
---------------------

- The file `tmac/hyphen.us` is identical to the file `hyphen.tex`, part of the TeX system written by Donald E. Knuth; the master file can be found at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>`, e.g. `hyphen.de` or `hyphen.uk`.  

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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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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  jar/org/codehaus/jackson/map/MappingJsonFactory.java

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* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-jar/com/ning/http/client/oauth/ConsumerKey.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-jar/com/ning/http/client/ByteArrayPart.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-jar/com/ning/http/client/MaxRedirectException.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-jar/com/ning/http/client/AsyncCompletionHandlerBase.java
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* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
  jar/com/ning/http/client/HttpResponseBodyPart.java
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  jar/com/ning/http/client/RequestBuilderInterface.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
  jar/com/ning/http/client/providers/netty/NettyResponse.java
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  jar/com/ning/http/client/HttpHandler.java
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  jar/com/ning/http/client/RequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
  jar/com/ning/http/multipart/PartSource.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
  jar/com/ning/http/multipart/MultipartEncodingUtil.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
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jar/com/ning/http/client/DefaultConnectionPoolStrategy.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
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jar/com/ning/httpclient/websocket/DefaultWebSocketListener.java
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* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
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* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
  jar/com/ning/http/client/resumable/ResumableAsyncHandler.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
  jar/com/ning/http/client/providers/apache/ApacheResponseStatus.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1-
  jar/com/ning/http/client/resumable/ResumableListener.java
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* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1.jar/com/ning/http/client/webdav/WebDavCompletionHandlerBase.java
* /opt/ws_local/PERMITS_SQL/1025582817_1594425527.57/0/async-http-client-1-8-14-sources-1.jar/com/ning/http/client/providers/jdk/JDKAsyncHttpProvider.java

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/* Value class used for OAuth tokens (request secret, access secret);
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* /opt/cola/permits/1158684750_1619822194.51/0/opencsv-1-8-sources-1-
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* /opt/cola/permits/1158684750_1619822194.51/0/opencsv-1-8-sources-1-
jar/au/com/bytecode/opencsv/bean/CsvToBean.java
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jar/au/com/bytecode/opencsv/bean/MappingStrategy.java
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* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/compiler/AbstractParser.java
* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/util/JITClassLoader.java
* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/templates/res/ExpressionNode.java
* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/PreProcessor.java
* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/ast/DoNode.java
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* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/ast/IndexedPreFixDecNode.java
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* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/util/Stack.java
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* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/asm/ClassAdapter.java
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* /opt/cola/permits/1158684468_1619822176.56/0/mvel2-2-0-10-sources-1-jar/org/mvel2/asm/unutil/AbstractVisitor.java
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1.794 tranql-connector 1.8

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1.795 zlib 1.2.5

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jloup@gzip.org          madler@alumni.caltech.edu

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1.797 jackson-xc 1.9.11
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Office Open XML schemas (ooxml-schemas-1.1.jar)

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DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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gnu

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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 3a0982da308228d796df35f98d787c5c2f2bb5b6.

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.

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<!-- $Id$ -->

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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">

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  jar/org/jivesoftware/smackx/commands/LocalCommand.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/provider/AdHocCommandDataProvider.java
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  jar/org/jivesoftware/smackx/commands/RemoteCommand.java
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* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/filetransfer/FileTransferNegotiator.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/filetransfer/IBBTransferNegotiator.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/provider/BytestreamsProvider.java
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  jar/org/jivesoftware/smackx/ChatStateListener.java
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* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/muc/RoomListenerMultiplexor.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/muc/PacketMultiplexListener.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/muc/ConnectionDetachedPacketCollector.java

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  jar/org/jivesoftware/smackx/workgroup/packet/Transcripts.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/workgroup/agent/OfferConfirmation.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/workgroup/user/QueueListener.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/workgroup/packet/OfferRevokeProvider.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/workgroup/packet/AgentInfo.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
  jar/org/jivesoftware/smackx/workgroup/settings/ChatSetting.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-

jar/org/jivesoftware/smackx/workgroup/packet/OfferRequestProvider.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/packet/RoomInvitation.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/packet/DepartQueuePacket.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/packet/MetaData.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/agent/WorkgroupQueue.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/agent/AgentRoster.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/packet/QueueOverview.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/ext/forms/WorkgroupForm.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
jar/org/jivesoftware/smackx/workgroup/packet/QueueDetails.java

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 * $Revision: 1.1 $
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jar/org/jivesoftware/smackx/packet/PEPEvent.java

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* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/muc/ParticipantStatusListener.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/provider/MUCAdminProvider.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/muc/RoomInfo.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/packet/XHTMLExtension.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/provider/MessageEventProvider.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/packet/RosterExchange.java
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* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/provider/MUCOwnerProvider.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/packet/MessageEventNotificationListener.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/PrivateDataManager.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/packet/DataForm.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/muc/InvitationListener.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/packet/MUCOwner.java
* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-
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* /opt/cola/permits/1158684600_1619822391.92/0/smackx-3-1-0-sources-2-jar/org/jivesoftware/smackx/muc/DiscussionHistory.java

1.821 dmidecode 2.12-9.el7

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1.823 hk2-api 2.3.0-b05

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### 1.828 smack 3.1.0

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Found in path(s):
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/sasl/SASLPlainMechanism.java

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 * $Revision: 10846 $
 * $Date: 2008-10-23 22:17:50 -0700 (Thu, 23 Oct 2008) $
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/SmackConfiguration.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/DNSUtil.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/Cache.java
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  jar/org/jivesoftware/smack/util/collections/AbstractReferenceMap.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/util/collections/ReferenceMap.java

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/**
 * Encodes and decodes to and from Base64 notation.
 */

<p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a></p>
 *
 * Change Log:
 *
 *  <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
 *  when using very small files (<= 40 bytes).</li>
 *  <li>v2.2 - Added some helper methods for encoding/decoding directly from
 *  one file to the next. Also added a main() method to support command line
 *  encoding/decoding from one file to the next. Also added these Base64 dialects:
 *  <ol>
 *   <li>The default is RFC3548 format.</li>
 *   <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
 *   URL and file name friendly format as described in Section 4 of RFC3548.
 *   <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
 *   URL and file name friendly format that preserves lexical ordering as described
 *  </ol>
 *  Special thanks to Jim Kellerman at <a href="http://www.powerset.com">http://www.powerset.com</a>
 *  for contributing the new Base64 dialects.
 *  </li>
 *  <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
 *  some convenience methods for reading and writing to and from files.</li>
<ul>
  <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
  <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
  <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (<tt>int</tt>s that you "OR" together).</li>
  <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).</li>
  <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.</li>
  <li>v1.4 - Added helper methods to read/write files.</li>
  <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
  <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.</li>
  <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
  <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
</ul>

I am placing this code in the Public Domain. Do with it as you will. This software comes with no guarantees or warranties but with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.

@version 2.2.1
*/

Found in path(s):
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/Base64.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/packet/PacketCollector.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2.jar/org/jivesoftware/smack/debugger/LiteDebugger.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2.jar/org/jivesoftware/smack/provider/PacketExtensionProvider.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2.jar/org/jivesoftware/smack/ConnectionCreationListener.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/sasl/SASLMechanism.java
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  jar/org/jivesoftware/smack/OpenTrustManager.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/packet/Packet.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/MessageListener.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/ChatManager.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/ChatManagerListener.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/packet/Presence.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/sasl/SASLAnonymous.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/sasl/SASLGSSAPIMechanism.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/sasl/SASLCramMD5Mechanism.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/sasl/SASLDigestMD5Mechanism.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/sasl/SASLExternalMechanism.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/ServerTrustManager.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/Roster.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/RosterListener.java
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  jar/org/jivesoftware/smack/packet/XMPPError.java

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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
jar/org/jivesoftware/smack/util/collections/DefaultMapEntry.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/PacketWriter.java

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jar/org/jivesoftware/smack/PrivacyListListener.java
 /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
jar/org/jivesoftware/smack/PrivacyListManager.java
 /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
jar/org/jivesoftware/smack/packet/Privacy.java

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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/collections/MapIterator.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/collections/KeyValue.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/collections/AbstractKeyValue.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/collections/IterableMap.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/collections/AbstractHashedMap.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/collections/AbstractMapEntry.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/collections/ResettableIterator.java
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* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/util/PacketParserUtils.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-jar/org/jivesoftware/smack/packet/Message.java
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  jar/org/jivesoftware/smack/util/collections/EmptyIterator.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/util/collections/EmptyMapIterator.java
* /opt/cola/permits/1158684861_1619822147.89/0/smack-3-1-0-sources-2-
  jar/org/jivesoftware/smack/util/collections/AbstractEmptyIterator.java

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JPython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1.

In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 and 2.1 were developed under the Jython specific license below.

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1.833 python-setuptools 39.2.0

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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.

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

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

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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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* ContainerImpl.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/db/impl/ResultSetReifIterator.java
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Resource.java

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# $Id: jena-model-spec.n3,v 1.7 2005/07/29 09:11:29 chris-dollin Exp $

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs:  <http://www.w3.org/2000/01/rdf-schema#> .
@prefix jms:  <http://jena.hpl.hp.com/2003/08/jms#> .
@prefix dc:   <http://purl.org/dc/elements/1.1/> .
@prefix :     <#> .

<> rdfs:comment "Vocabulary for describing Jena models" ;
dc:creator  "Andy Seaborne" ;
dc:creator  "Chris Dollin" ;
dc:subject  "" ;
dc:publisher "HP" ;
dc:title    "Jena Model Spec" ;
dc:description "Vocabulary for describing Jena models" ;
dc:date     "2004-01-26" ;
dc:format   "RDF" ;
dc:identifier :.

# ==== Classes

jms:MakerSpec rdf:type rdfs:Class .
jms:FileMakerSpec rdf:type rdfs:Class .
jms:MemMakerSpec rdf:type rdfs:Class .
jms:RDBMakerSpec rdf:type rdfs:Class .

jms:ModelSpec rdf:type rdfs:Class
  ; rdfs:comment "the base type of all model specifications"
  .

jms:DefaultModelSpec rdf:type rdfs:Class
  ; rdfs:comment "the type of the default model specification"
  .

jms:PlainModelSpec rdf:type rdfs:Class
  ; rdfs:comment "the type of a plain memory-based model specification"
  .

jms:FileModelSpec rdf:type rdfs:Class
  ; rdfs:comment "the type of a file-based model specification"
  .

jms:InfModelSpec rdf:type rdfs:Class
  ; rdfs:comment "the type of an inference-model specification"
  .

jms:OntModelSpec rdf:type rdfs:Class
  ; rdfs:comment "the type of an OntModel specification"
  .

# Resources

jms:rsStandard rdf:type rdfs:Resource
  ; rdfs:label "Standard"
  ; rdfs:comment "reification mode Standard - all reification triples visible"
  .

jms:rsMinimal rdf:type rdfs:Resource
  ; rdfs:label "Minimal"
  ; rdfs:comment "reification mode Minimal - no reification triples visible"
  .

jms:rsConvenient rdf:type rdfs:Resource
  ; rdfs:label "Convenient"
  ; rdfs:comment "reification mode Convenient"
  .
# ==== Properties

jms:ontLanguage rdf:type rdf:Property .
jms:docManager rdf:type rdf:Property .
jms:policyPath rdf:type rdf:Property .

jms:dbUser rdf:type rdf:Property .
jms:dbPassword rdf:type rdf:Property .
jms:dbURL rdf:type rdf:Property .
jms:dbType rdf:type rdf:Property .
jms:dbClass rdf:type rdf:Property .

jms:maker rdf:type rdf:Property .
jms:reificationMode rdf:type rdf:Property .
jms:reasoner rdf:type rdf:Property .
jms:fileBase rdf:type rdf:Property .
jms:modelName rdf:type rdf:Property .

# ==== Relationships


jms:DefaultModelSpec rdfs:subClassOf jms:ModelSpec .
jms:PlainModelSpec rdfs:subClassOf jms:ModelSpec .
jms:InfModelSpec rdfs:subClassOf jms:PlainModelSpec .

jms:loadWith rdfs:domain jms:ModelSpec .
jms:maker rdfs:domain jms:PlainModelSpec .
jms:modelName rdfs:domain jms:ModelSpec .
jms:hasConnection rdfs:domain jms:RDBMakerSpec .

jms:importMaker rdfs:subPropertyOf jms:maker .

# Local Variables:
# tab-width: 4
# indent-tabs-mode: nil
# End:
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
  jar/com/hp/hpl/jena/db/impl/SimpleCache.java

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 *
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
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* Created on:  04-Dec-2003
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jar/com/hp/hpl/jena/reasoner/rulesys/builtins/ListMapAsObject.java
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jar/com/hpl/jena/rdf/arp/impl/AttributeLexer.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/util/CharEncoding.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hpl/jena/rdf/arp/states/FrameI.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hpl/jena/rdf/arp/states/WantLiteralValueOrDescription.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hpl/jena/rdf/arp/impl/AbsXMLContext.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hpl/jena/rdf/arp/states/WantPropertyElement.java
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  * /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/n3/turtle/TurtleRDFGraphInserter.java
  * /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/n3/turtle/TurtleReader.java

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@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix mf: <http://jena.hpl.hp.com/2003/03/test-manifest#> .
@prefix : <http://jena.hpl.hp.com/2003/03/test-query#> .

# RDF testcases vocabulary
@prefix testns: <http://www.w3.org/2000/10/rdf-tests/rdfcore/testSchema#> .

<>  rdfs:comment     "Vocabulary for query test cases" ;
dc:creator       "Andy Seaborne" ;
dc:subject       "" ;
dc:publisher     "Hewlett-Packard Laboratories" ;
dc:title         "Query test case vocabulary" ;
dc:description   "" ;
dc:date          "2003-03" ;
dc:format        "RDF" ;
dc:identifier    : ;
.

## ---- Class declarations ----

:QueryTest a rdfs:Class ;
   rdfs:comment "The class of query tests" .

## ---- Property declarations ----

:query a rdf:Property ;
   rdfs:comment "The query to ask" ;
   rdfs:domain :QueryTest ;
   ## rdfs:range   ?? ;
   .

:data a rdf:Property ;
   rdfs:comment "Optional: data for the query test" ;
   rdfs:domain :QueryTest ;
   rdfs:range   rdfs:Resource ;
   .

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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/shared/JenaException.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/shared/LockMRSW.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/util/DBcmd.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/util/tuple/TupleSet.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/util/tuple/TupleItem.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/util/ModelLoader.java

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* NodeIteratorImpl.java

* Created on 07 August 2000, 06:43
*/

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  /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
  jar/com/hp/hpl/jena/rdf/model/impl/NodeIteratorImpl.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/rdf/model/AnonId.java
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* Created by:  Dave Reynolds
* Created on:  03-Dec-2003
* 
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* $Id: XSDFloat.java,v 1.1 2009/06/29 08:55:58 castagna Exp $
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* NsIteratorImpl.java
*
* Created on 07 August 2000, 06:55
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* Created on 15 August 2000, 19:36
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/rdf/model/impl/ModelListenerAdapter.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/query/SimpleTripleSorter.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/reasoner/rulesys/impl/LPBRuleEngine.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/reasoner/rulesys/impl/TempNodeCache.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/FRuleInfGraph.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/vocabulary/ReasonerVocabulary.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/FinderUtil.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/builtinins/Product.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/impl/RETERuleContext.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/DAMLMicroReasonerFactory.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/impl/LPInterpreterState.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/rdf/model/RDFList.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/impl/RETESourceNode.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/rdf/model/AltHasNoDefaultException.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/impl/RDFSCMPPreprocessHook.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/BasicForwardRuleReasoner.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/TriplePattern.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/impl/DateFlag.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/builtins/AssertDisjointPairs.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/impl/RETESinkNode.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/BaseInfGraph.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/impl/EnvironmentFrameWithDerivation.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/rdf/model/ReifiedStatement.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/rdf/model/SeqIndexBoundsException.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/impl/LPBindingEnvironment.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/impl/FRuleEngine.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/BasicForwardRuleInfGraph.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/impl/Generator.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/impl/BindingStack.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/reasoner/rulesys/impl/RDFSFBRuleReasoner.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hp/hpl/jena/util/iterator/RandomOrderIterator.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hp/hpl/jena/shared/RandomOrderGraph.java
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*/

jar/com/hp/hpl/jena/reasoner/rulesys/Util.java
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jar/com/hp/hpl/jena/reasoner/rulesys/BuiltinException.java
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* Container.java
*
* Created on 26 July 2000, 07:49
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AUTHOR:  Jeremy J. Carroll

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* Model.java
*
* Created on 11 March 2001, 16:07
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* ModelCon.java
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 * ContNodeIteratorFactoryImpl.java
 *
 * Created on 12 August 2000, 10:23
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/n3/turtle/LabelToNodeMap.java
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jar/com/hp/hpl/jena/mem/GraphTripleStore.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/util/QueryMapper.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/EnumeratedClass.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/OntProperty.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/OntModelImpl.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/ComplementClassImpl.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/AllValuesFromRestriction.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/MapFilter.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/MapFilter.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/ComplementClassImpl.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/MapFilter.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/ComplementClassImpl.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/shared/Command.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/IntersectionClass.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/db/impl/DBTransactionHandler.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/query/BindingQueryPlan.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/enhanced/BuiltinPersonalities.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/Individual.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/shared/DeleteDeniedException.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/query/QueryHandler.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/query/SimpleQueryHandler.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/query/PatternStageCompiler.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/OntologyImpl.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/AllDifferent.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/rdf/model/impl/RDFListImpl.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/compose/CompositionBase.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/datatypes/xsd/impl/XSDDurationType.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/datatypes/xsd/impl/XSDByteType.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/rdf/model/ModelFactoryBase.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/db/impl/DBReifier.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/ontology/impl/ObjectPropertyImpl.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/query/ConstraintStage.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/compose/Polyadic.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/vocabulary/DAMLVocabulary.java
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        AUTHOR:  Jeremy J. Carroll
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"C:\Program Files\OpenOffice.org\bin\svntool\setheader.bat"

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.jar/com/hp/hpl/jena/util/iterator/Map1Iterator.java
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* Created on:  04-Dec-2003
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CREATED BY: Dave Reynolds
CREATED ON: 23-Sep-2003

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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/db/impl/SpecializedGraph.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/db/impl/SpecializedGraphReifier.java
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* File:        ListNotContains.java
* Created by:  Dave Reynolds
* Created on:  23-Sep-2003
* [See end of file]
* $Id: ListNotContains.java,v 1.1 2009/06/29 08:55:36 castagna Exp$
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/builtins/ListEntry.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/impl/RETEConflictSet.java
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* 
* Created on 12 August 2000, 09:57
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  jar/com/hp/hpl/jena/rdf/model/impl/ContNodeIteratorImpl.java
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* Created on: 23-Sep-2003
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* SeqImpl.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/graph/Node_ANY.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1.jar/com/hp/hpl/jena/db/impl/DBQueryStageCompiler.java

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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
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# $Id: assembler.n3,v 1.15 2008/01/31 12:30:55 chris-dollin Exp $

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .

@prefix ja: <http://jena.hpl.hp.com/2005/11/Assembler#> .
@prefix lm: <http://jena.hpl.hp.com/2004/08/location-mapping#> .
@prefix dc: <http://purl.org/dc/elements/1.1/> .

@prefix : <#> .

<> rdfs:comment "Vocabulary for describing Jena models" ;
dc:creator "Chris Dollin" ;
dc:creator "the Jena team" ;
dc:subject "" ;
dc:publisher "HP" ;
dc:title "Jena Model Spec" ;
dc:description "Vocabulary for describing Jena models" ;
dc:date "2005-11-15" ;
dc:format "RDF" ;
dc:identifier : .

#
# Alias for owl:imports
#

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ja:imports a rdf:Property
 ; rdfs:label "Assembler.imports"
 ; rdfs:comment
   """property whose object is another JA description to
   be loaded into this one; equivalent to owl:imports."""
 .

# # Assembler object: those things that can be specified and created
#

ja:Object a rdfs:Class
 ; rdfs:label "Assembler.Object"
 ; rdfs:comment "the class of Assembler objects"
 .

# # Assembler model base type.
#

ja:Model a rdfs:Class
 ; rdfs:subClassOf ja:Object
 ; rdfs:subClassOf ja:Loadable
 ; rdfs:subClassOf ja:ContentItem
 ; rdfs:label "Assembler.Model"
 ; rdfs:comment "the class of Assembler model objects"
 .

# # every Model can be given a ReificationMode
#

ja:reificationMode a rdf:Property
 ; rdfs:label "Assembler.reificationMode"
 ; rdfs:comment "property to attach a ReificationMode to a Model"
 ; rdfs:domain ja:Model
 ; rdfs:range ja:ReificationMode
 .

# # every model can has some content specified by a Content object.
#

ja:content a rdf:Property
 ; rdfs:label "Assembler.content"
 ; rdfs:comment
   """specifies that the subject Loadable is to be loaded with
   all the contents specified by the object Content."""
"""
; rdfs:domain ja:Loadable
; rdfs:range ja:Content
.

ja:initialContent a rdf:Property
; rdfs:label "Assembler.initialContent"
; rdfs:comment
""""specifies that the subject Loadable is to be loaded with all the contents specified by the object Load when it is first created - i.e. not when e.g. an existing database model is opened.
"""
; rdfs:domain ja:Loadable
; rdfs:range ja:Content
.

ja:Loadable a rdfs:Class
; rdfs:subClassOf ja:Object
; rdfs:label "Assembler.Loadable"
; rdfs:comment "a Loadable object, namely a Model or a Load"
.

ja:HasFileManager a rdfs:Class
; rdfs:subClassOf ja:Object
; rdfs:label "Assembler.HasFileManager"
; rdfs:comment "an object that may have a FileManager property"
.

ja:Content a rdfs:Class
; rdfs:subClassOf ja:HasFileManager
; rdfs:label "Assembler.Content"
; rdfs:comment "content to be loaded into a Loadable"
.

#
# there are two kinds of Load. A ContentGroup collects together other Loads, specified with ja:content.
#

ja:ContentGroup a rdfs:Class
; rdfs:subClassOf ja:Content, ja:Loadable
.

#
# the other kind of Content is a ContentItem, which is either a URL or a literal string with an optional language name.
#
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```

# named models [for file & database models]
#

ja:NamedModel a rdfs:Class
  ; rdfs:subClassOf ja:Model
  ; rdfs:subClassOf [owl:onProperty ja:modelName; owl:cardinality 1]
  ; rdfs:label "Assembler.NamedModel"
  ; rdfs:comment """"shared superclass for FileModel and RDBModel, accepting the modelName property"""
  .

ja:modelName a rdf:Property
  ; rdfs:label "AssemblermodelName"
  ; rdfs:comment """"property specifying that the subject NamedModel shall have the object String as its name. If the object is a URI node, it has the spelling of the URI as its name."""
  ; rdfs:domain ja:NamedModel
  .

# file models
#

ja:FileModel a rdfs:Class
  ; rdfs:subClassOf ja:NamedModel
  ; rdfs:subClassOf [owl:onProperty ja:fileEncoding; owl:maxCardinality 1]
  ; rdfs:subClassOf [owl:onProperty ja:directory; owl:maxCardinality 1]
  ; rdfs:subClassOf [owl:onProperty ja:mapName; owl:maxCardinality 1]
  ; rdfs:label "Assembler.FileModel"
  ; rdfs:comment """"a FileModel is a file-backed NamedModel implemented as a MemoryModel with the name given by the modelName and in the directory given by fromDirectory."""
  .

ja:directory a rdf:Property
  ; rdfs:label "directory"
  ; rdfs:comment """"property of a FileModel giving the directory in which the modelName is to be resolved. Query: is the current behaviour

---

```
of FileModels to be preserved?""
; rdfs:domain ja:FileModel
.

ja:mapName a rdf:Property
; rdfs:label "Assembler.mapName"
; rdfs:domain ja:FileModel
; rdfs:comment
""""property of a FileModel specifying whether the modelName should be escaped by replacing _, /, and : by __, _S, _C before being used, to allow URIs as model names without implying nested directory structure. If omitted or not ja:true, no translation is done."""
.

ja:fileEncoding a rdf:Property
; rdfs:domain ja:FileModel
; rdfs:label "Assembler.fileEncoding"
; rdfs:comment """"FileModel property to give language encoding"""
.

# database models
#

ja:RDBModel a rdfs:Class
; rdfs:subClassOf ja:NamedModel
; rdfs:subClassOf [owl:onProperty ja:connection; owl:cardinality 1]
; rdfs:subClassOf ja:Connectable
; owl:equivalentClass [owl:intersectionOf (ja:Connectable ja:NamedModel)]
; rdfs:label "Assembler.RDBModel"
; rdfs:comment
""""a Model from a Jena relational database, specified by a Connection and with a given name."""
.

ja:Connectable a rdfs:Class
; rdfs:subClassOf ja:Object
; rdfs:label "Assembler.Connectable"
; rdfs:comment
""""The class of Objects which can be the subject of a ja:connection property."""
.

ja:connection a rdf:Property
; rdfs:label "Assembler.connection"
; rdfs:comment
""""property specifying that the subject RDBModel is built using the connection specified by the object."""
ja:ModelSource a rdfs:Class
  ; rdfs:subClassOf ja:Connectable
  ; rdfs:label "Assembler.ModelSource"
  ; rdfs:comment "Source of models by name for an OntModelSpec"

ja:RDBModelSource a rdfs:Class
  ; rdfs:subClassOf ja:ModelSource
  ; rdfs:subClassOf ja:Connectable
  ; rdfs:label "Assembler.RDBModelSource"
  ; rdfs:comment "A ModelSource backed by an RDB"

# inference models
#

ja:InfModel a rdfs:Class
  ; rdfs:subClassOf ja:Model
  ; rdfs:subClassOf [owl:onProperty ja:baseModel; owl:maxCardinality 1]
  ; rdfs:subClassOf [owl:onProperty ja:reasoner; owl:maxCardinality 1]
  ; rdfs:label "Assembler.InfModel"
  ; rdfs:comment
    """class of inference models given by applying a reasoner to a base model
    (which might be implicitly the a default model)"

ja:reasoner a rdf:Property
  ; rdfs:label "Assembler.reasoner"
  ; rdfs:comment
    """"""property of an inference model that specifies the reasoner
to use."""
  ; rdfs:domain ja:InfModel
  ; rdfs:range ja:ReasonerFactory

ja:baseModel a rdf:Property
  ; rdfs:label "Assembler.baseModel"
  ; rdfs:comment
    """"optional property of an inference model that specifies the
    base model over which inference is done."""
  ; rdfs:domain ja:InfModel
  ; rdfs:range ja:Model
# reasoner factories; see also properties of HasRules.

ja:ReasonerFactory a rdfs:Class
  ; rdfs:subClassOf ja:HasRules
  ; rdfs:subClassOf [owl:onProperty ja:ReasonerURL; owl:maxCardinality 1]
  ; rdfs:label "Assembler.ReasonerFactory"
  ; rdfs:comment
    """class of ReasonerFactory objects, allowing arbitrary reasoner
     properties to be attached.""
  .

ja:reasonerURL a rdf:Property
  ; rdfs:label "Assembler.reasonerURL"
  ; rdfs:comment
    """property of a ReasonerFactory specifying the URL of the reasoner
     in the reasoner registry; only one such property per reasoner.""
  ; rdfs:domain ja:ReasonerFactory
  .

ja:reasonerClass a rdf:Property
  ; rdfs:label "Assembler.reasonerClass"
  ; rdfs:comment "property of a ReasonerFactory giving the class name"
  ; rdfs:domain ja:ReasonerFactory
  .

ja:reasonerFactory a rdf:Property
  ; rdfs:label "Assembler.reasonerFactory"
  ; rdfs:comment "property of an OntModelSpec giving the reasoner for the spec"
  ; rdfs:range ja:ReasonerFactory
  ; rdfs:domain ja:OntModelSpec
  .

ja:schema a rdf:Property
  ; rdfs:label "Assembler.schemaURL"
  ; rdfs:comment
    """property of a Reasoner specifying schema Models to be loaded.
     Multiple schemas can be given; they are unioned
     together before being supplied to the reasoner.""
  ; rdfs:domain ja:ReasonerFactory
  ; rdfs:range ja:Model
  .

#
# rulesets
#

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ja:HasRules a rdfs:Class
  ; rdfs:subClassOf ja:Object
  ; rdfs:label "Assembler.HasRules"
  ; rdfs:comment
    """the class of things that can have rules attached, viz, Reasoners and RuleSets."""
.

ja:RuleSet a rdfs:Class
  ; rdfs:subClassOf ja:HasRules
  ; rdfs:label "Assembler.RuleSet"
  ; rdfs:comment
    """class of sets of rules (for a Jena rule engine) specified within the Assembler file. A RuleSet may refer to rules by their URL, by their containing RuleSets, or by including them as string literals."""
.

ja:rules a rdf:Property
  ; rdfs:label "Assembler.rules"
  ; rdfs:comment
    """property of a GenericRuleReasoner or RuleSet which specifies rules given within rulesets within the Assembler RDF. Multiple such properties can be given."""
  ; rdfs:domain ja:HasRules
  ; rdfs:range ja:RuleSet
.

ja:rulesFrom a rdf:Property
  ; rdfs:label "Assembler.rulesFrom"
  ; rdfs:comment
    """property of a RuleSet which identifies rules by their URL. The target resource is loaded and parsed as a rule string."""
  ; rdfs:domain ja:HasRules
.

ja:rule a rdf:Property
  ; rdfs:label "Assembler.rule"
  ; rdfs:comment
    """property of a RuleSet specifying a rule (or rules) as a literal string."""
  ; rdfs:domain ja:HasRules
.

#
#
#
ja:LocationMapper a rdfs:Class
  ; rdfs:subClassOf ja:Object
  ; rdfs:subClassOf [owl:onProperty lm:mapping; owl:maxCardinality 1]
  ; rdfs:label "Assembler.LocationMapper"
  ; rdfs:comment "class of LocationMapper specifications"

lm:mapping a rdf:Property
  ; rdfs:domain ja:LocationMapper
  ; rdfs:label "LocationMapper.mapping"
  ; rdfs:comment
    """LocationMapper property which identifies location mappings and
     which we have stolen to identify ja:LocationMapper specifications.""

ja:FileManager a rdfs:Class
  ; rdfs:subClassOf ja:Object
  ; rdfs:subClassOf [owl:onProperty ja:locationMapper; owl:maxCardinality 1]
  ; rdfs:label "Assembler.FileManager"
  ; rdfs:comment "class of FileManager specifications"

ja:locationMapper a rdf:Property
  ; rdfs:domain ja:FileManager
  ; rdfs:range ja:LocationMapper
  ; rdfs:label "Assembler.locationMapper"
  ; rdfs:comment "FileManager property which identifies its LocationMapper."

ja:DocumentManager a rdfs:Class
  ; rdfs:subClassOf ja:HasFileManager
  ; rdfs:subClassOf [owl:onProperty ja:fileManager; owl:maxCardinality 1]
  ; rdfs:subClassOf [owl:onProperty ja:policyPath; owl:maxCardinality 1]
  ; rdfs:label "Assembler.DocumentManager"
  ; rdfs:comment "class of OntDocumentManager specifications"

ja:fileManager a rdf:Property
  ; rdfs:domain ja:HasFileManager
  ; rdfs:range ja:FileManager
  ; rdfs:label "Assembler.fileManager"
  ; rdfs:comment
    """property of a DocumentManager whose value is its FileManager""

ja:policyPath a rdf:Property
  ; rdfs:domain ja:DocumentManager
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; rdfs:label "Assembler.policyPath"
; rdfs:comment
   """property of a DocumentManager whose value is its metadata policy path""
   
.

#
# ontology models. every ontology model is an inference model.
#

ja:OntModel a rdfs:Class
 ; rdfs:subClassOf ja:InfModel, ja:UnionModel
 ; rdfs:label "Assembler.OntModel"
 ; rdfs:comment "the class of OntModel specifications"
   
.

ja:OntModelSpec a rdfs:Class
 ; rdfs:subClassOf ja:Object
 ; rdfs:subClassOf [owl:onProperty ja:ontLanguage; owl:maxCardinality 1]
 ; rdfs:subClassOf [owl:onProperty ja:documentManager; owl:maxCardinality 1]
 ; rdfs:subClassOf [owl:onProperty ja:importSource; owl:maxCardinality 1]
 ; rdfs:subClassOf [owl:onProperty ja:reasonerFactory; owl:maxCardinality 1]
 ; rdfs:subClassOf [owl:onProperty ja:like; owl:maxCardinality 1]
 ; rdfs:label "Assembler.OntModelSpec"
 ; rdfs:comment "class of OntModelSpec objects for OntModel construction"
   
.

ja:ontModelSpec a rdf:Property
 ; rdfs:label "Assembler.ontModelSpec"
 ; rdfs:comment "property of an OntModel giving its OntModelSpec"
 ; rdfs:domain ja:OntModel
 ; rdfs:range ja:OntModelSpec
   
.

ja:likeBuiltinSpec a rdf:Property
 ; rdfs:label "Assembler.likeBuiltinSpec"
 ; rdfs:comment "property of an OntModelSpec giving an internal spec it's like"
 ; rdfs:domain ja:OntModelSpec
   
.

ja:ontLanguage a rdf:Property
 ; rdfs:label "Assembler.ontLanguage"
 ; rdfs:comment
   """property of an OntModelSpec that specifies the ontology language.""
 ; rdfs:domain ja:OntModelSpec
   
.

ja:documentManager a rdf:Property
; rdfs:label "Assembler.docManager"
; rdfs:comment
  """property of an OntModelSpec that specifies the
document manager of the model. If omitted, the model has
the default document manager."""
; rdfs:domain ja:OntModelSpec
.

ja:importSource a rdf:Property
; rdfs:label "Assembler.importSource"
; rdfs:comment
  """property of an OntModelSpec that specifies the importSource
  of the model. If omitted, the model has a default MemoryModelMaker."""
; rdfs:domain ja:OntModelSpec
.

#
# union models
#

ja:UnionModel a rdfs:Class
; rdfs:subClassOf ja:Model
; rdfs:subClassOf [owl:onProperty ja:rootModel; owl:maxCardinality 1]
; rdfs:label "Assembler.Union"
; rdfs:comment "class of Union models"
.

ja:subModel a rdf:Property
; rdfs:label "Assembler.subModel"
; rdfs:comment
  """property of a UnionModel that specifies one of its non-root sub-models.
  Arbitrarily many sub-models can be supplied."""
; rdfs:domain ja:UnionModel
; rdfs:range ja:Model
.

ja:rootModel a rdf:Property
; rdfs:domain ja:UnionModel
; rdfs:range ja:Model
; rdfs:label "Assembler.rootModel"
; rdfs:comment
  """property of a UnionModel that specifies its mutable base model"""
.

#
# connections
#

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ja:Connection a rdfs:Class
; rdfs:subClassOf [owl:onProperty ja:dbURL; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbURLProperty; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbUser; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbUserProperty; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbPassword; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbPasswordProperty; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbType; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbTypeProperty; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbClass; owl:maxCardinality 1]
; rdfs:subClassOf [owl:onProperty ja:dbClassProperty; owl:maxCardinality 1]
; rdfs:subClassOf ja:Object
; rdfs:label "Assembler.Connection"
; rdfs:comment
  "class of RDB Connection objects for JDBC database connections."
.

ja:dbURL a rdf:Property
; rdfs:label "Assembler.dbURL"
; rdfs:comment
  """property of a Connection that specifies as a URI Resource
  the URL of the database to connect to.""
; rdfs:domain ja:Connection
.

ja:dbUser a rdf:Property
; rdfs:label "Assembler.dbUser"
; rdfs:comment
  """property of a database connection that specifies as a string
  the name of the database user for which the connection is to be made.""
; rdfs:domain ja:Connection
.

ja:dbPassword a rdf:Property
; rdfs:label "Assembler.dbPassword"
; rdfs:comment
  """property of a database connection that specifies as a string the
  password used to authorise the connection.""
; rdfs:domain ja:Connection
.

ja:dbType a rdf:Property
; rdfs:label "Assembler.dbType"
; rdfs:comment
  """property of a database connection that specifies as a string the
  type of the database to connect to.""
; rdfs:domain ja:Connection
.
ja:dbURLProperty a rdf:Property
  ; rdfs:label "Assembler.dbURLProperty"
  ; rdfs:comment
    """property of a Connection that specifies the name of a Java
    system property containing the URL of the database to connect to."""
  ; rdfs:domain ja:Connection
  .

ja:dbUserProperty a rdf:Property
  ; rdfs:label "Assembler.dbUserProperty"
  ; rdfs:comment
    """property of a database connection that specifies the name of
    a Java system property containing the name of the database user
    for which the connection is to be made."""
  ; rdfs:domain ja:Connection
  .

ja:dbPasswordProperty a rdf:Property
  ; rdfs:label "Assembler.dbPasswordProperty"
  ; rdfs:comment
    """property of a database connection that specifies the name of
    a Java system property the password used to authorise the connection."""
  ; rdfs:domain ja:Connection
  .

ja:dbTypeProperty a rdf:Property
  ; rdfs:label "Assembler.dbTypeProperty"
  ; rdfs:comment
    """property of a database connection that specifies the name of a
    Java system property containing the type of the database to connect to."""
  ; rdfs:domain ja:Connection
  .

ja:dbClass a rdf:Property
  ; rdfs:label "Assembler.dbClass"
  ; rdfs:comment
    """property of a database connection that specifies as a string the
    name of a Java class to be loaded before connection is attempted."""
  ; rdfs:domain ja:Connection
  .

ja:dbClassNameProperty a rdf:Property
  ; rdfs:label "Assembler.dbClassName"
  ; rdfs:comment
    """property of a database connection that specifies as a string the
    name a Java system property containing the name of a Java class to be
    loaded before connection is attempted."""
ja:ReificationMode a rdfs:Class
  ; rdfs:label "Assembler.ReificationMode"
  ; rdfs:comment "the class of reification modes"
  .

ja:standard a ja:ReificationMode
  ; rdfs:label "Standard"
  ; rdfs:comment "reification mode Standard - all reification triples visible"
  .

ja:minimal a ja:ReificationMode
  ; rdfs:label "Minimal"
  ; rdfs:comment "reification mode Minimal - no reification triples visible"
  .

ja:convenient a ja:ReificationMode
  ; rdfs:label "Convenient"
  ; rdfs:comment "reification mode Convenient"
  .

ja:PrefixMapping a rdfs:Class
  ; rdfs:subClassOf ja:Object
  ; rdfs:label "Assembler.PrefixMapping"
  ; rdfs:comment
    "class encoding a Jena prefix mapping"
  .

ja:prefixMapping a rdf:Property
  ; rdfs:label "Assembler.prefixMapping"
  ; rdfs:comment
    "property used to attach a PrefixMapping to a Model"
  ; rdfs:domain ja:Model
  ; rdfs:range ja:PrefixMapping
  .

ja:includes a rdf:Property
  ; rdfs:label "Assembler.includes"
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/reasoner/rulesys/impl/BaseRuleReasonerFactory.java

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   jar/com/hpl/jena/db/impl/SQLCache.java
   * /opt/cola/permits/11586844484_1619822305.73/0/jena-2-6-4-sources-1-
   jar/com/hpl/jena/db/impl/SpecializedGraph_TripleStore_RDB.java
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AUTHOR: Jeremy J. Carroll
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/n3/turtle/TurtleEventHandler.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/n3/turtle/ParserBase.java
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*
* Created on 08 August 2000, 17:09
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* RDFNode.java
*
* Created on 25 July 2000, 13:13
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SimpleSelector.java

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* AUTHOR: Jeremy J. Carroll
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$Id: GraphExtract.java,v 1.1 2009/06/29 08:55:45 castagna Exp$
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@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix dc: <http://purl.org/dc/elements/1.1/> .
@prefix : <http://jena.hpl.hp.com/2003/03/result-set#> .
@prefix xsd: <http://www.w3.org/2000/10/XMLSchema#> .

: rdfs:comment "Vocabulary for recording query result set" ;
dc:creator "Andy Seaborne" ;
dc:subject "" ;
dc:publisher "SWAD-e" ;
dctitle "" ;
dc:description "" ;
## ---- Class declarations ----

:ResultSet rdf:type rdfs:Class ;
   rdfs:comment "Class of things that represent the result set" ;

:ResultSolution rdf:type rdfs:Class ;
   rdfs:comment "Class of things that represent a row in the result table - one solution to the query" ;

:ResultBinding rdf:type rdfs:Class ;
   rdfs:comment "Class of things that represent a single (variable, value) pairing" ;

## =======================================
## Modelling style: uses multiple instances of a property
## to represent
## e.g. :ResultTable has many :hasSolution properties, one per row

## ---- Properties ----

## - Table level

:solution rdf:type rdf:Property ;
   rdfs:domain :ResultSet ;
   rdfs:range :ResultSolution ;

## Useful information extracted
:size rdf:type rdf:Property ;
   rdfs:comment "Number of rows in the result table" ;
   rdfs:range xsd:integer ; # Is that how I write it?

## Can be convenient to list the variables beforehand
:resultVariable rdf:type rdf:Property ;
   rdfs:domain :ResultSet ;
   rdfs:range xsd:string ;
   rdfs:comment "Name of a variable used in the result set" ;
   rdfs:comment "Multivalued" ;
## -- Row level

:binding rdf:type rdf:Property ;
    rdfs:comment    "Multi-occurrence property associating a result solution (row) resource to a single (variable, value) binding " ;
    rdfs:domain     :ResultSolution ;
    rdfs:range      :ResultBinding ;
.

## -- Single binding level

:variable rdf:type rdf:Property ;
    rdfs:comment    "Variable name" ;
    rdfs:domain     :ResultBinding ;
    rdfs:range      rdfs:Literal ;
.

:value rdf:type rdf:Property ;
    #rdfs:subPropertyOf rdfs:value ;
    rdfs:comment    "Variable name" ;
    rdfs:domain     :ResultBinding ;
    # Range is anything
.

# Declare the "undefined" value
:undef rdf:type rdfs:Resource ;
    rdfs:comment    "Resource representing the undefined value" ;
.

Found in path(s):
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/vocabularies/result-set.n3
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   [See end of file]
   $Id: RuleReasoner.java,v 1.1 2009/06/29 08:55:38 castagna Exp $
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/*
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* ResourceF.java

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jar/com/hp/hpl/jena/vocabulary/OWLTest.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hp/hpl/jena/vocabulary/RDFTest.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
jar/com/hp/hpl/jena/vocabulary/OWLResults.java
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* File:        Max.java
* Created by:  Dave Reynolds
* Created on:  22-Sep-2003
*
* [See end of file]
* $Id: Max.java,v 1.1 2009/06/29 08:55:36 castagna Exp $
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
  jar/com/hp/hpl/jena/util/cache/EnhancedNodeCache.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/shared/QueryStageException.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/util/IteratorCollection.java
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  AUTHOR:  Jeremy J. Carroll
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* *
*
* LazyZipEntryInputStream.java
*
* Created on November 28, 2001, 11:38 AM
*/

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  jar/com/hpl/jena/shared/wg/LazyZipEntryInputStream.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
  jar/com/hpl/jena/shared/wg/LazyInputStream.java
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*
* Created on 16 August 2000, 05:56
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/graph/query/FixedValuator.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/graph/query/SlotValuator.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/mem/MixedGraphMem.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-
  jar/com/hp/hpl/jena/graph/impl/ReificationWrapper.java

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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/xmloutput/impl/Unparser.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hpl/jena/graph/query/Util.java
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* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/rdf/arp/NamespaceHandler.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/xmloutput/impl/SimpleLogger.java
* /opt/cola/permits/1158684484_1619822305.73/0/jena-2-6-4-sources-1-jar/com/hp/hpl/jena/rdf/arp/ARPEventHandler.java

1.842 xpp 1.1.3.4.O

1.843 milyn-smooks-javabean 1.4

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<one line to give the library's name and a brief idea of what it does.>
Implementation-Vendor: MuleSoft, Inc.
Build-Date: 2015-Feb-13 12:55:26
Build-Revision: b795785f
Description: Mule ESB and Integration Platform
Dev-List-Email: mule-esb@mulesoft.com
License: CPAL v1.0 http://www.mulesoft.com/CPAL/
More-Info: For more information go to http://www.mulesoft.org
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Support: Get commercial support: http://www.mulesoft.com/support
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025582754_1594411544.38/0/mule-module-launcher-3-6-1-jar/META-INF/MANIFEST.MF

1.846 libcheck 0.15.0

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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to attach them to the start of each source file to most effectively
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the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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

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1.848 mule-transport-jms 3.6.1
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 */

// can't delegate to non-interfaced methods (like proprietary 'cleanup' one)

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025582863_1594525811.52/0/mule-transport-jms-3-6-1-sources-1-jar/org/mule/transport/jms/activemq/ActiveMQJmsConnector.java
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The End
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* /opt/ws_local/PERMITS_SQL/1025582863_1594525811.52/0/mule-transport-jms-3-6-1-sources-1.jar/org/mule/transport/jms/JmsMessageUtils.java

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.850 jmock 2.5.1

1.851 pyyaml 3.10-11.el7
1.851.1 Available under license:

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1.852 string-template 3.2.1

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*/

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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/misc/JTreeStringTemplateModel.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/misc/JTreeStringTemplatePanel.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/misc/StringTemplateTreeView.java

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*/

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/GroupLexer.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/AngleBracketTemplateLexer.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/GroupParserTokenTypes.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/GroupParser.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/ActionEvaluatorTokenTypes.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/GroupParser.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/InterfaceLexer.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/DefaultTemplateLexer.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/InterfaceParser.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/ActionParserTokenTypes.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/InterfaceParserTokenTypes.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/ActionEvaluator.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/InterfaceLexer.java

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*/

package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;
}

/** A parser used to break up a single template into chunks, text literals
 * and attribute expressions.
 */
class TemplateParser extends Parser;
protected StringTemplate self;

public void reportError(RecognitionException e) {
    StringTemplateGroup group = self.getGroup();
    if (group==StringTemplate.defaultGroup) {
        self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
    }
    else {
        self.error("template parse error in group "+self.getGroup().getName()+" line "+self.getGroupFileLine()+"; template context is "+self.getEnclosingInstanceStackString(), e);
    }
}

template[StringTemplate self]
{
    this.self = self;
}
: ( s:LITERAL  {self.addChunk(new StringRef(self,s.getText()));}
|   nl:NEWLINE
{   if ( LA(1)!=ELSE && LA(1)!=ENDIF ) {
        self.addChunk(new NewlineRef(self,nl.getText()));
    }
|   action[self]
)/*
;

action[StringTemplate self]
: a:ACTION
{
    String indent = ((ChunkToken)a).getIndentation();
    ASTExpr c = self.parseAction(a.getText());
    c.setIndentation(indent);
    self.addChunk(c);
}
| i:IF
{
    ConditionalExpr c = (ConditionalExpr)self.parseAction(i.getText());
    // create and precompile the subtemplate
    StringTemplate subtemplate =
    new StringTemplate(self.getGroup(), null);
    subtemplate.setEnclosingInstance(self);
    subtemplate.setName(i.getText()+"._subtemplate");
    self.addChunk(c);
}
template[template] {if ( c!=null ) c.setSubtemplate(subtemplate);}

( ei:ELSEIF
  {
    ASTExpr ec = self.parseAction(ei.getText());
    // create and precompile the subtemplate
    StringTemplate elseifSubtemplate =
      new StringTemplate(self.getGroup(), null);
    elseifSubtemplate.setEnclosingInstance(self);
    elseifSubtemplate.setName(ei.getText()+"_subtemplate");
  }
  template[elseifSubtemplate]
  {if ( c!=null ) c.addElseIfSubtemplate(ec, elseifSubtemplate);}
)

( ELSE
  {
    // create and precompile the subtemplate
    StringTemplate elseSubtemplate =
      new StringTemplate(self.getGroup(), null);
    elseSubtemplate.setEnclosingInstance(self);
    elseSubtemplate.setName("else_subtemplate");
  }
  template[elseSubtemplate]
  {if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}
)

ENDIF

|rr:REGION_REF
  {
    // define implicit template and
    // convert <@r()> to <region__enclosingTemplate__r()>
    String regionName = rr.getText();
    String mangledRef = null;
    boolean err = false;
    // watch out for <@super.r()>; that does NOT def implicit region
    // convert to <super.region__enclosingTemplate__r()> if ( regionName.startsWith("super.") ) {
    //System.out.println("super region ref "+regionName);
    String regionRef =
      regionName.substring("super.").length(),regionName.length());
    String templateScope =
    String templateScope =
  }
self.getGroup().getUnMangledTemplateName(self.getName());
StringTemplate scopeST = self.getGroup().lookupTemplate(templateScope);
if ( scopeST==null ) {
    self.getGroup().error("reference to region within undefined template: "+
    templateScope);
    err=true;
}
if ( !scopeST.containsRegionName(regionRef) ) {
    self.getGroup().error("template "+templateScope+" has no region called "+
    regionRef);
    err=true;
}
else {
    mangledRef =
    self.getGroup().getMangledRegionName(templateScope,regionRef);
    mangledRef = "super."+mangledRef;
}
else {
    //System.out.println("region ref "+regionName);
    StringTemplate regionST =
        self.getGroup().defineImplicitRegionTemplate(self,regionName);
    mangledRef = regionST.getName();
}
if ( !err ) {
    // treat as regular action: mangled template include
    String indent = ((ChunkToken)rr).getIndentation();
    ASTExpr c = self.parseAction(mangledRef+"()");
    c.setIndentation(indent);
    self.addChunk(c);
}

|rd:REGION_DEF
{
String combinedNameTemplateStr = rd.getText();
int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=");
if ( indexOfDefSymbol>=1 ) {
    String regionName = combinedNameTemplateStr.substring(0,indexOfDefSymbol);
    String template =
        combinedNameTemplateStr.substring(indexOfDefSymbol+3, 
        combinedNameTemplateStr.length());
    StringTemplate regionST =
        self.getGroup().defineRegionTemplate(self, 
        regionName, 
        template, 
        StringTemplate.REGION_EMBEDDED);
}
String indent = ((ChunkToken)rd).getIndentation();
ASTExpr c = self.parseAction(regionST.getName()+"()");
c.setIndentation(indent);
self.addChunk(c);
}
else {
self.error("embedded region definition screwed up");
}

/**
 * Break up an input text stream into chunks of either plain text
 * or template actions in "$...$". Treat IF and ENDIF tokens
 * specially.
 */
class DefaultTemplateLexer extends Lexer;

options {
    k=7; // see "$endif$"
    charVocabulary = '\u0001'..'\uFFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("$...$ chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
            LA(i+5)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
            LA(i+5)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)=='$';
}
LITERAL :
   \{LA(1)!=\'\r'&\&LA(1)!=\'\n\}'?
      ( options { generateAmbigWarnings=false; })
      {
         int loopStartIndex=text.length();
         int col=getColumn();
      }
   | \!'\$' // allow escaped delimiter
   | \!'\W' // always replace \ with \
   | \!'~\$' // otherwise ignore escape char
   | ind:INDENT
      { if ( col==1 && LA(1)==\'\$\' ) {
         // store indent in ASTExpr not in a literal
         currentIndent=ind.getText();
         text.setLength(loopStartIndex); // reset length to wack text
         } else currentIndent=null; }  
   | ~(\$|\'\n\'})
      )+
      {if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent?

NEWLINE
   \{\'\n\'}? \'\n' {newline(); currentIndent=null;}

ACTION
   options {
      generateAmbigWarnings=false; // $EXPR$ is ambig with $!...!$
   }
   {
      int startCol = getColumn();
   }
   : LINE_BREAK {$setType(Token.SKIP);}
   // Match escapes not in a string like <\u00a5>
   {StringBuffer buf = new StringBuffer(); char uc = '\u0000';}
   \'$'! (uc=ESC_CHAR {buf.append(uc);})+'$'!
   {$setText(buf.toString()); $setType(LITERAL);}
   | COMMENT {$setType(Token.SKIP);}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==\'\r'&\&LA(i+1)==\'\n\')||LA(i)==\'\n\';
}
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| ( |
| options {
| generateAmbigWarnings=false; // SEXPR$ is ambig with $end$ etc...
| }
| :|$! "if" ('!'* "(" IF_EXPR ")" )$! [ setType(TemplateParser.IF);]
| ( ('\r'!)? '\n'! {newline();})? // ignore any newline right after an IF
| [$!' "elseif" ('!'* "(" IF_EXPR ")" )$! [ setType(TemplateParser.ELSEIF);]
| ( ('\r'!)? '\n'! {newline();})? // ignore any newline right after an IF
| [$!' "else" $!' [ setType(TemplateParser.ELSE;]
| ( ('\r'!)? '\n'! {newline();})? // ignore any newline right after an ELSE
| [$!' "endif" $!' [ setType(TemplateParser.ENDIF);]
| ( [startCol==1]? ('\r'!)? '\n'! {newline();})? // ignore after ENDIF if on line by itself

| // match @foo=> foo
| // match @foo...$@end$ => foo:==...
| 'S!' '@!' (~('$'|'('))+
| ("()"! '$!' [ setType(TemplateParser.REGION_REF)];
| [$!' [ setType(TemplateParser.REGION_DEF);
| String t=$getText;
| $setText(t+":=");
| }
| ( options {greedy=true;} : ('\r'!)? '\n'! {newline();})?
| [boolean atLeft = false;]
| ( options {greedy=true;} // handle greedy=false with predicate
| :(![upcomingAtEND(1)][!upcomingNewline(1)&!upcomingAtEND(2)])? ([('\r')? '\n'! {newline(); atLeft = true;}
| [. [atLeft = false;}
| )
| )+
| ( ('\r'!)? '\n'! {newline(); atLeft = true; }?)
| ($@end$)! |
| . [self.error("missing region "+t+" $@end$ tag");]
| )
| ( [atLeft]? ('\r'!)? '\n'! {newline();})?
| )
| [$!' EXPR $!' // (Can't start with '!', which would mean comment)
| )
| }
| ChunkToken t = new ChunkToken(_ttype, $getText, currentIndent);
| $setText(t);
| }
| ;

protected
EXPR:  ( ESC
protected
SUBTEMPLATE
  : ' {' (SUBTEMPLATE|ESC|~'}')* ' }
  ;

protected
NESTED_PARENS
  : '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')'
  ;

protected
INDENT
  : ( options {greedy=true;}: ' ' | '	')+
  ;

protected
COMMENT
{ int startCol = getColumn();
  
  : "$!"
    (options {greedy=false;}
      :('
')? ' \n' {newline();}
    |
    )*
  "$" ( {startCol==1}? ('\r')? ' \n' {newline();} )?
  ;

protected
LINE_BREAK
  : "$\\$" (INDENT)? ('\r')? ' \n' {newline();} (INDENT)?
  ;

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/template.g
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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/action.g
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/eval.g
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*/

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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/AttributeRenderer.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/NewlineRef.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplateErrorListener.java
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```
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package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match an ST group interface. Just a list of template names with args.

 * Here is a sample interface file:
 *
 * *interface nfa;
 * nfa(states,edges);
 * *optional state(name);
 * */
class InterfaceParser extends Parser;

options {
   k=3;
}

protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
   if ( groupI!=null ) {
      groupI.error("template group interface parse error", e);
   }
   else {
      System.err.println("template group interface parse error: "+e);
      e.printStackTrace(System.err);
   }
}

groupInterface(StringTemplateGroupInterface groupI) {
   this.groupI = groupI;
   :"interface" name:ID {groupI.setName(name.getText());} SEMI
      ( template[groupI] )*+
   :

template(StringTemplateGroupInterface groupI) {
   LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
   String templateName=null;
{ }

:(opt:"optional")? name:ID LPAREN (formalArgs=args)? RPAREN SEMI

{ 
    templateName = name.getText();
    groupI.defineTemplate(templateName, formalArgs, opt!=null);
}

;

args returns [LinkedHashMap args=new LinkedHashMap()]

:a:ID {args.put(a.getText(), new FormalArgument(a.getText()));}

( COMMA b:ID {args.put(b.getText(), new FormalArgument(b.getText()));} )* 

;

class InterfaceLexer extends Lexer;

options { 
k=2;
charVocabulary = ' '..'uFFE';
}

ID:('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_')*

;

LPAREN: '(' ;
RPAREN: ')';
COMMA: ',' ;
SEMI: ':' ;
COLON: ':' ;

// Single-line comments
SL_COMMENT
   : "/\n
   (\n|\n)* (\n|\n)
   {$setType(Token.SKIP); newline();}

;

// multiple-line comments
ML_COMMENT
   : "/*

   (options {
       greedy=false;
   }
   : (\n|\n)? \n  {newline();}
   | .
   )*";


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package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;
class AngleBracketTemplateLexer extends Lexer;

options {
    importVocab=TemplateParser;
    k=7; // see "<endif>", see \\
    charVocabulary = '\u0001'..'\uFFFF';
}

protected String currentIndent = null;
protected StringTemplate self;

public AngleBracketTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("<...> chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
        LA(i+5)==';';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
        LA(i+5)==';';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)==';';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL
    :   {LA(1)!=''&&LA(1)!='
'}?;
( options { generateAmbigWarnings=false; } )
[
  int loopStartIndex=text.length();
  int col=getColumn();
]
: '\! '< // allow escaped delimiter
| '\! '>
| '\! \ // always replace \ with \
| '\ ~('<'|'>')  // otherwise ignore escape char
| ind:INDENT
|
if ( col==1 && LA(1)=='<' ) {
  // store indent in ASTExpr not in a literal
  currentIndent=ind.getText();
text.setLength(loopStartIndex); // reset length to wack text
} else currentIndent=null;
|
| ~(<'\'|'\n')
)+
{if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent?
;
protected
INDENT
: ( options {greedy=true;}: ' ' | '\t')+
;
NEWLINE
:('\t')? '\n' {newline(); currentIndent=null;}
;
ACTION
options {
  generateAmbigWarnings=false; // <EXPR> is ambig with <!..>
}
[
  int startCol = getColumn();
]
: LINE_BREAK {$setType(Token.SKIP);}
| // Match escapes not in a string like \n\ufea5
{StringBuffer buf = new StringBuffer(); char uc = '\u0000';}
  '<!' (uc=ESC_CHAR {buf.append(uc);} )+'>'
  {$setText(buf.toString()); $setType(LITERAL);}
| COMMENT    {$setType(Token.SKIP);}
| ( options {
  generateAmbigWarnings=false; // SEXP is ambig with $end$ etc...
protected

TEMPLATE

:\"" ( ESC | ~"" )\* \"

\"\"<<

(options {greedy=true;}:(''!)?'\n'! {newline();})? // consume 1st \n
(options {greedy=false;}: // stop when you see the >>

:[LA(3)==> & &LA(4)==>']? '\r'! '\n'! {newline();} // kill last \n
[[LA(2)==> & &LA(3)==>']? '\n'! {newline();} // kill last \n
[\n']? '\n' {newline();} // else keep 

:)

">>" +

;

protected

IF_EXPR:( ESC

| (\r')? '\n' {newline();}

| SUBTEMPLATE

| NESTED_PARENS

| ~')'

)+

;

protected

ESC_CHAR returns [char uc='\u0000']

:\"\n"! {uc = '\n';}

:\"\r"! {uc = '\r';}

:\"\t"! {uc = '\t';}

:\"\"! {uc = '\';}

:\"\u"! a:HEX! b:HEX! c:HEX! d:HEX!

{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}

;

// just used to skip stuff (not part of unicode escape stuff)

protected

ESC : '\W'. // (\r')?['n'][t]'""('?')?\n
;

protected

HEX:\'0'..\'9'\'A'..'F'|\'a'..'f'

;
protected
SUBTEMPLATE
  :  '{' (SUBTEMPLATE|ESC|~'}')* '}'

protected
NESTED_PARENS
  :  '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')

protected
COMMENT
{
  int startCol = getColumn();
}
  :
    "<!" (options {greedy=false;}
    :("\r")? 'n' {newline();}
    |
    )*
    "!>" ( {startCol==1}? ('\r')? 'n' {newline();} )?

protected
LINE_BREAK
  :
    "<\\>" (INDENT)? ('\r')? 'n' {newline();} (INDENT)?

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/angle.bracket.template.g
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documentation and/or other materials provided with the distribution.
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match a group of template definitions beginning
 * with a group name declaration.  Templates are enclosed
 * in double-quotes or <<...>> quotes for multi-line templates.
 * Template names have arg lists that indicate the cardinality
 * of the attribute: present, optional, zero-or-more, one-or-more.
 * Here is a sample group file:

 group nfa;

 // an NFA has edges and states
 nfa(states,edges) ::= <<
 digraph NFA {
 rankdir=LR;
 <states; separator="\n"> <edges; separator="\n">
 }
>>

 state(name) ::= "node [shape = circle]; <name>;"

 */
class GroupParser extends Parser;

 options {
   k=3;
 }

 protected StringTemplateGroup group;
public void reportError(RecognitionException e) {
    if (group!=null) {
        group.error("template group parse error", e);
    }
    else {
        System.err.println("template group parse error: "+e);
        e.printStackTrace(System.err);
    }
}

group[StringTemplateGroup g]
{
    this.group = g;
}
:"group" name:ID {g.setName(name.getText());}
(COLON s:ID {g.setSuperGroup(s.getText());})?
    ("implements" i:ID {g.implementInterface(i.getText());}
        (COMMA i2:ID {g.implementInterface(i2.getText());})*)?
    SEMI
( template[g] | mapdef[g] )+
;

template[StringTemplateGroup g]
{
    Map formalArgs = null;
    StringTemplate st = null;
    boolean ignore = false;
    String templateName=null;
    int line = LT(1).getLine();
}
:(AT scope:ID DOT region:ID
{
templateName=g.getMangledRegionName(scope.getText(),region.getText());
    if (g.isDefinedInThisGroup(templateName)) {
        g.error("group "+g.getName()+" line "+line+: redefinition of template region: @"+
            scope.getText()+"."+region.getText());
        st = new StringTemplate(); // create bogus template to fill in
    }
    else {
        boolean err = false;
        // @template.region() ::= "...
        StringTemplate scopeST = g.lookupTemplate(scope.getText());
        if (scopeST==null) {
            g.error("group "+g.getName()+" line "+line+: reference to region within undefined template: "+
                scope.getText());
        }
}

err=true;
}
if ( !scopeST.containsRegionName(region.getText()) ) {
  g.error("group "+g.getName()+" line "+line+: template "+scope.getText()+" has no region called "+
  region+getText());
err=true;
}
if ( err ) {
  st = new StringTemplate();
}
else {
  st = g.defineRegionTemplate(scope+getText(),
  region+getText(),
  null,
  StringTemplate.REGION_EXPLICIT);
}

[name:ID {templateName = name+getText();}
  
  if ( g.isDefinedInThisGroup(templateName) ) {
    g.error("redefinition of template: "+templateName);
    st = new StringTemplate(); // create bogus template to fill in
  }
  else {
    st = g.defineTemplate(templateName, null);
  }
}

{if ( st!=null ) {st.setGroupFileLine(line);}}
LPAREN
  (args[st]|{st.defineEmptyFormalArgumentList();})
RPAREN
DEFINED_TO_BE
(t:STRING  {st.setTemplate(t.getText());}
  [bt:BIGSTRING {st.setTemplate(bt.getText());}
   )

[ alias:ID DEFINED_TO_BE target:ID
  {g.defineTemplateAlias(alias.getText(), target.getText());}
  ]

args[st]
  :arg[st] ( COMMA arg[st ])*
  :

arg[st]
StringTemplate defaultValue = null;
"
: name: ID
(ASSIGN s : STRING
{
  defaultValue = new StringTemplate("$ _val_ $");
  defaultValue.setAttribute("_val_", s.getText());
  defaultValue.defineFormalArgument("_val_");
  defaultValue.setName("<" + st.getName() + "'s arg " + name.getText() + " default value subtemplate>");
}
ASSIGN bs : ANONYMOUS_TEMPLATE
{
  defaultValue = new StringTemplate(st.getGroup(), bs.getText());
  defaultValue.setName("<" + st.getName() + "'s arg " + name.getText() + " default value subtemplate>");
}
)?
  { st.defineFormalArgument(name.getText(), defaultValue); }
;

/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
   OPTIONAL {cardinality=FormalArgument.OPTIONAL;}
   STAR     {cardinality=FormalArgument.ZERO_OR_MORE;}
   PLUS     {cardinality=FormalArgument.ONE_OR_MORE;}
| *
*/

mapdef[StringTemplateGroup g]
{
  Map m = null;
}
: name: ID
  DEFINED_TO_BE m = map
  {
    if ( g.getMap(name.getText()) != null ) {
      g.error("redefinition of map: "+ name.getText());
    }
    else if ( g.isDefinedInThisGroup(name.getText()) ) {
      g.error("redefinition of template as map: " + name.getText());
    }
    else {
      g.defineMap(name.getText(), m);
    }
  }

map returns [Map mapping=new HashMap()]
mapPairs [Map mapping]
  : keyValuePair[mapping] (COMMA keyValuePair[mapping])*
      (COMMA defaultValuePair[mapping])?
  | defaultValuePair[mapping]
  ;

defaultValuePair[Map mapping]
{
  StringTemplate v = null;
}
:"default" COLON v=keyValue
  {mapping.put(ASTExpr.DEFAULT_MAP_VALUE_NAME, v);$}
;

keyValuePair[Map mapping]
{
  StringTemplate v = null;
}
:key:STRING COLON v=keyValue {mapping.put(key.getText(), v);} 
;

keyValue returns [StringTemplate value=null]
:s1:BIGSTRING{value = new StringTemplate(group.s1.getText());}
|s2:STRING{value = new StringTemplate(group.s2.getText());}
|k:ID{k.getText().equals("key")}?
  {value = ASTExpr.MAP_KEY_VALUE;}
  |{value = null;}
;

class GroupLexer extends Lexer;

    options {
      k=2;
      charVocabulary = 'u0000'..'uFFFF';
      testLiterals=false;
    }

ID
    options {
      testLiterals=true;
    }
 |
    :('a'..'z' | 'A'..'Z' | '_') ('a'..'z' | 'A'..'Z' | '0'..'9' | '_')* 
;

STRING
1.853 pyliblzma 0.5.3

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1.860 libssh2 1.4.3-10.el7

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1.868 compress-lzf 1.0.4
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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

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

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

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1.869 axiom-impl 1.2.5

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

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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  */opt/cola/permits/1135840046_1613613019.19/0/asm-5.0.3-sources-7-jar/org/objectweb/asm/TypeReference.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#getName()} getInternalName()`). May be
  * `<tt>null</tt>`.

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

*/

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  jar/org/objectweb/asm/commons/JSRInlinerAdapter.java`

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

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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 */

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

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/Textifier.java

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/ASMifiable.java
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 */
 Jar file includes the following classes:

- `ClassOptimizer.java`
- `Label.java`
- `Item.java`
- `StaticInitMerger.java`
- `MethodConstantsCollector.java`
- `AnnotationVisitor.java`
- `RemappingMethodAdapter.java`
- `Frame.java`
- `MethodVisitor.java`
- `BasicValue.java`
- `ClassWriter.java`
- `Remapper.java`
- `VarInsnNode.java`
- `LocalVariablesSorter.java`
- `AnnotationNode.java`
- `TypeInsnNode.java`
- `TraceMethodVisitor.java`
- `Edge.java`
- `Method.java`
- `MethodNode.java`
- `SignatureWriter.java`
- `LocalVariableNode.java`
- `LookupSwitchInsnNode.java`

The jar file contains classes related to the objectweb/asm library, which are commonly used in Open Source projects, including Cisco Vision Dynamic Signage Director 6.4.
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AnalysisAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/Analyzer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/FieldVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/AbstractInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/ClassConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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1.872 mule-module-builders 3.6.1

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: jenkins
Build-Jdk: 1.7.0_72
Specification-Title: Configuration Builders
Specification-Version: 3.6.1
Specification-Vendor: MuleSoft, Inc.
Implementation-Title: Configuration Builders
Implementation-Version: 3.6.1
Implementation-Vendor-Id: org.mule.modules
Implementation-Vendor: MuleSoft, Inc.
Build-Date: 2015-Feb-13 12:38:15
Build-Revision: b795785f
Description: Mule ESB and Integration Platform
Dev-List-Email: mule-esb@mulesoft.com
License: CPAL v1.0 http://www.mulesoft.com/CPAL/
More-Info: For more information go to http://www.mulesoft.org
Product-Url: http://www.mulesoft.org
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1.873 jackson-dataformat-yaml 2.10.4

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1.874 json-c 0.11-4.el7_0

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1.875 mx4j-tools 2.1.1
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Contribution: Lachezar Dobrev (l.dobrev@lsnsoft.com)
Revision: $Revision: 1.2 $

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* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/NotificationResultSer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/RoleResultSerFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/http/HTTPResolver.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/http/HTTPConnectorServer.java
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jar/mx4j/tools/adaptor/http/XSLTProcessorMBean.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/adaptor/rmi/SSLRMIClientSocketFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/jython/JythonRunner.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/rmi/RemoteNotificationFilterSupport.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/provider/burlap/ServerProvider.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/caucho/CauchoInput.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/http/HTTPHeartBeat.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanParameterInfoSerFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/http/CommandProcessorUtil.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/naming/CosNamingServiceMBeanDescription.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/stats/ValueStatisticsRecorderMBeanDescription.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/stats/TimedStatisticsRecorderMBeanDescription.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/AttributeDeser.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanNotificationInfoDeserFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanServerNotificationFilterSer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanServerNotificationDeser.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/soapConnectionIDRequestHandler.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanConstructorInfoSerFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/adaptor/rmi/IIOPAdaptorMBean.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/NotificationDeser.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/adaptor/rmi/RemoteAdaptor.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/TargetedNotificationDeser.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/config/ConfigurationException.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/AxisDeserializer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanServerNotificationFilterDeserFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/naming/NamingServiceMBean.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/AbstractConnectionManager.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/http/HTTPConnectionHandler.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/provider/burlap/ClientProvider.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/adaptor/interceptor/Interceptor.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/provider/soap/ClientProvider.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanConstructorInfoSer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/config/ConfigurationException.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/RelationTypeSupportSer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/connector/MBeanServerConnection.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/provider/soap/ClientProvider.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/caucho/serialization/JMXMLSerializer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/caucho/hessian/HessianClientInvoker.java

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* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/NotificationResultDeserFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/heartbeat/HeartBeatListener.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/connector/rmi/iiop/IIOPConnector.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/connector/rmi/jrmp/JRMPRemoteNotificationListenerSupport.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanAttributeInfoDeserFactory.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanOperationInfoSer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MonitorNotificationDeser.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/adapter/interceptor/TimingAdaptorInterceptor.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MBeanOperationInfoSer.java
* /opt/cola/permits/1114277400_1607460496.02/0/mx4j-tools-2-1-1-sources-jar/mx4j/tools/remote/soap/axis/ser/MonitorNotificationDeser.java
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jar/mx4j/tools/adaptor/http/HttpOutputStream.java
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Brett Knights
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author <a href="mailto:tibu@users.sourceforge.net">Carlos Quiroz</a>
version $Revision: 1.3 $
"""
from javax.management import *
from javax.management.monitor import *
from javax.management.timer import *
from javax.management.loading import *
from javax.management.relation import *
from javax.management.modelmbean import *
class OperationProxy:
def __init__(self, objectname, operation):
self.objectname = objectname
self.operation = operation
def invoke(self, **kw):
server.invoke(self.objectname, self.operation, None, None)
class proxy:
def __init__(self, objectname):
self.__dict__["objectname"] = objectname

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info = server.getMBeanInfo(objectname)
for o in info.operations:
    self.__dict__[o.name] = OperationProxy(objectname, o.name).invoke

def __getattr__(self, name):
    return server.getAttribute(self.objectname, name)

def __setattr__(self, name, value):
    from javax.management import Attribute
    return server.setAttribute(self.objectname, Attribute(name, value))

def __repr__(self):
    return "Proxy of MBean: %s " % (self.__dict__["objectname"], )

def invoke(self, name, arguments=None, types=None):
    return server.invoke(self.objectname, name, arguments, types)

def mbeans(query=None):
    ""
    Returns a list of all the available MBeans in the server. The optional
    query parameter will filter the list by objectname
    ""
    return server.getQueryMBeans(ObjectName(query), None)

def instances(classname, query=None):
    ""
    Returns a list of all the available MBeans in the server which are instances
    of classname. It accepts a query parameter to filter by objectname
    ""
    return [x for x in mbeans(query) if server.isInstanceOf(classname)]

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

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.890 cxf-common-utilities 2.5.9

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1.892 mule-transport-tcp 3.6.1

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1.893 spring-jms 3.2.10.RELEASE

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  jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointFactory.java
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  jar/org/springframework/jms/listener/DefaultMessageListenerContainer.java
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  jar/org/springframework/jms/connection/ChainedExceptionListener.java
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  jar/org/springframework/jms/listener/LocallyExposedJmsResourceManager.java
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 * @since 3.0
 */
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/*
* @(#)UnixCrypt.java 0.9 96/11/25
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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 *  2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 *  2=DC_CONFIDENTIAL
 */

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/**
* Utf8 Appendable abstract base class
*
* This abstract class wraps a standard {link java.lang.Appendable} and provides methods to append UTF-8
* encoded bytes, that are converted into characters.
* *
* This class is stateful and up to 4 calls to {link #append(byte)} may be needed before state a character is
* appended to the string buffer.
* *
* The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
* inspired by
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* *
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a) Accompany the work with the complete corresponding
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This is a bundle of X.509 certificates of public Certificate Authorities (CA).
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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************************************************************************
* NCSA HTTPd Server
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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For the expat xml parser component:

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1.926 libthai 0.1.14-9.el7

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONWriter.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONStringer.java

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTP.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XMLTokener.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONTokener.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONArray.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONObject.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CookieList.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XML.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTPTokener.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/Cookie.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CDL.java

1.928 mule-module-drools 3.6.1

1.928.1 Available under license:

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: jenkins
Build-Jdk: 1.7.0_72
1.929 sqlite 3.7.17-8.el7

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SQLite core and like the SQLite core are in the public domain. The
The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

Found in path(s):
* /opt/cola/permits/1126267549_1611615929/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
 fTjl2WH1/sqlite-doc-3071700.zip-cosi-expandarchive-oxP7G8cr/sqlite-doc-3071700/testing.html
No license file was found, but licenses were detected in source scan.

/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: [configuration option]
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
non-zero [error code] if a discontinued or unsupported configuration option is invoked.

** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** SQLITE_THREADSAFE=1) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
alternative low-level memory allocation routines to be used in place of
the memory allocation routines built into SQLite.)^ ^SQLite makes
its own private copy of the content of the [sqlite3_mem_methods] structure
before the [sqlite3_config()] call returns. </dd>

**

** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd>^(This option takes a single argument which is a pointer to an
instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
structure is filled with the currently defined memory allocation routines.)^

** This option can be used to overload the default memory allocation
routines with a wrapper that simulates memory allocation failure or
tracks memory usage, for example. </dd>

**

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd>^This option takes single argument of type int, interpreted as a
boolean, which enables or disables the collection of memory allocation
statistics. ^(When memory allocation statistics are disabled, the
following SQLite interfaces become non-operational:

<dl>
  <li> [sqlite3_memory_used()]
  <li> [sqlite3_memory_highwater()]
  <li> [sqlite3_soft_heap_limit64()]
  <li> [sqlite3_status()]
</dl>^

^Memory allocation statistics are enabled by default unless SQLite is
compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
allocation statistics are disabled by default.

</dd>

**

** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd>^This option specifies a static memory buffer that SQLite can use for
scratch memory. There are three arguments: A pointer an 8-byte
aligned memory buffer from which the scratch allocations will be
drawn, the size of each scratch allocation (sz),
and the maximum number of scratch allocations (N). The sz
argument must be a multiple of 16.
The first argument must be a pointer to an 8-byte aligned buffer
of at least sz*N bytes of memory.

^SQLite will use no more than two scratch buffers per thread. So
N should be set to twice the expected maximum number of threads.

^SQLite will never require a scratch buffer that is more than 6
times the database page size. ^If SQLite needs additional
scratch memory beyond what is provided by this configuration option, then
[sqlite3_malloc()] will be used to obtain the memory needed. </dd>

**

** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd>^This option specifies a static memory buffer that SQLite can use for
the database page cache with the default page cache implementation.
This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option. There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N). The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. The page header size is 20 to 40 bytes depending on the host architecture. It is harmless, apart from the wasted memory, to make sz a little too large. The first argument should point to an allocation of at least sz*N bytes of memory. SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. If additional page cache memory is needed beyond what is provided by this option, then SQLite goes to [sqlite3_malloc()] for the additional storage space. The pointer in the first argument must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.

This option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE]. There are three arguments: An 8-byte aligned pointer to the memory, the number of bytes in the memory buffer, and the minimum allocation size. If the first pointer (the memory pointer) is NULL, then SQLite reverts to using its default memory allocator (the system malloc() implementation), undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. If the memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory allocator is engaged to handle all of SQLite's memory allocation needs. The first pointer (the memory pointer) must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined. The minimum allocation size is capped at 2**12. Reasonable values for the minimum allocation size are 2**5 through 2**8.

This option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The argument specifies alternative low-level mutex routines to be used in place of the mutex routines built into SQLite. SQLite makes a copy of the content of the [sqlite3_mutex_methods] structure before the call to [sqlite3_config()] returns. If SQLite is compiled with the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then the entire muting subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will return [SQLITE_ERROR].

This option takes a single argument which is a pointer to an instance of the [sqlite3_getmutex] structure. The argument specifies alternative low-level mutex routines to be used in place of the mutex routines built into SQLite. SQLite makes a copy of the content of the [sqlite3_getmutex] structure before the call to [sqlite3_config()] returns. If SQLite is compiled with the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then the entire muting subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will return [SQLITE_ERROR].
**<dd> ^(This option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The [sqlite3_mutex_methods] structure is filled with the currently defined mutex routines.)^ This option can be used to overload the default mutex allocation routines with a wrapper used to track mutex usage for performance profiling or testing, for example. ^If SQLite is compiled with the [SQLITE_THREDSAFE | SQLITE THREDSAFE=0] compile-time option then the entire mutexing subsystem is omitted from the build and hence calls to [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will return [SQLITE_ERROR].</dd>

**<dd> ^(This option takes two arguments that determine the default memory allocation for the lookaside memory allocator on each [database connection]. The first argument is the size of each lookaside buffer slot and the second is the number of slots allocated to each database connection.)^ ^(This option sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE] verb to [sqlite3_db_config()] can be used to change the lookaside configuration on individual connections.)^</dd>

**<dd> ^(This option takes a single argument which is a pointer to an [sqlite3_pcache_methods2] object. This object specifies the interface to a custom page cache implementation.)^ SQLite makes a copy of the object and uses it for page cache memory allocations.</dd>

**<dd> ^(This option takes a single argument which is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of the current page cache implementation into that object.)^</dd>

**<dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite global [error log]. ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a function with a call signature of void(*)(void*,int,const char*), and a pointer to void. ^If the function pointer is not NULL, it is invoked by [sqlite3_log()]) to process each logging event. ^If the function pointer is NULL, the [sqlite3_log()]) interface becomes a no-op. ^(The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. ^The second parameter to the logger function is a copy of the first parameter to the corresponding [sqlite3_log()]) call and is intended to be a [result code] or an [extended result code]. ^The third parameter passed to the logger is log message after formatting via [sqlite3_snprintf()].) ^</dd>
** The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled. If URI handling is globally enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or specified as part of [ATTACH] commands are interpreted as URIs, regardless of whether or not the [SQLITE_OPEN_URI] flag is set when the database connection is opened. If it is globally disabled, filenames are only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the database connection is opened. By default, URI handling is globally disabled. The default value may be changed by compiling with the [SQLITE_USE_URI] symbol defined.
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer. The default setting is determined by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on" if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to ** disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code. They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int). The second should be of type (void*). The callback is invoked by the library in three separate circumstances, identified by the value passed as the fourth parameter. If the fourth parameter is 0, then the database connection passed as the second argument has just been opened. The third argument points to a buffer containing the name of the main database file. If the fourth parameter is 1, then the SQL statement that the third parameter points to has just been executed. Or, if the fourth parameter is 2, then...
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.

**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** */

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-src-3071700.zip-cosi-expand-archive-kRmLF99B/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.
Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.
%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the SQLite database library.

prep
%setup -q -n %{name}

build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

post -p /sbin/ldconfig
postun -p /sbin/ldconfig

clean
rm -fr $RPM_BUILD_ROOT

files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.90/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
FOR IMMEDIATE RELEASE:

SQLite Consortium Launches With Mozilla And Symbian As Charter Members

Ensures independent technical direction for world's most deployed SQL database engine

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian.

"Our involvement with the SQL Consortium not only demonstrates Symbian's commitment
to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible.”</p>

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

CONTACT INFORMATION:
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Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla
Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation.
For more information, visit www.mozilla.com.
<p>CONTACT INFORMATION:<br> Mozilla Corporation<br> Jessica Waight<br> Tel: +1.415.345.4754<br> Email: jwaight@outcastpr.com</p>

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:<br> Symbian Global Press Office<br> Karen Hamblen<br> +44 207 154 1707<br> press@symbian.com

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

<a href="copyright.html">public domain</a> and so many groups use SQLite

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<h3>Proprietary SQLite Extensions</h3>

But there also exist proprietary, licensed extensions to SQLite, written and maintained. You are welcomed to use SQLite in closed source, proprietary, and/or open source.

Found in path(s):

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

```plaintext
# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
```
# and does not contain any code under copyright.
#
set porter_test_data {
    a        a
    aaron    aaron
    abaissiez abaissiez
    abandon  abandon
    abandoned abandon
    abase    abas
    abash    abash
    abate    abat
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    abates   abat
    abbess   abbess
    abbey    abbei
    abbeys   abbei
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    abbots   abbot
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    abed     ab
    abel     abel
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    abergavenny abergavenni
    abet     abet
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</tbody>
</table>
zealous
zeals
zed
zenelophon
zenith
zephyrs
zir
zo
zodiac
zodics
zone
zounds
zwerger
{
# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}
foreach {pfrom pto} $porter_test_data {
  do_test fts1porter-$pfrom {
execsql {
    DELETE FROM t1_term;
    DELETE FROM t1_content;
    INSERT INTO t1(word) VALUES($pfrom);
    SELECT term FROM t1_term;
  }
} $pto
}
finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

Found in path(s):
* %%BeginResource
<p>SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.</p>

Found in path(s):


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

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

Found in path(s):

* /opt/cola/permissions/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/requirements.html

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

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.
The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction | Volume Hedged
1   - 24990
2500 - 54995000
5500 - 64996000

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay. ‘);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:
Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/’);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?'
Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

'),
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
    If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well. Thanks.
    Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

'):
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT:

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Here is the information on staffing and outside services. Call if you need anything else.

Jim

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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You are invited to attend the EWS Brown Bag Lunch Series

Featuring:  RAY BOWEN, COO

Topic:  Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch,           Limited Seating
We provide drinks and dessert.   RSVP  x 3-9610);

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "''chris.germany@enron.com''" <chris.germany@enron.com>
cc:        
Subject: About St Pauls

<<About St Pauls.url>>

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', 'CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '');
Here is a goody for you);
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification: (West VaR - 11/07/2001), The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??
Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.
');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13t floor.
Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com, jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of
which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.);

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "Agheb (E-mail)” <Agheb@aol.com>, "Leila Mankarious (E-mail)”
<Leila_Mankarious@mhhhs.org>, "Marymankarious (E-mail)”
<marymankarious@aol.com>, "Michelle lokay (E-mail)” <mlokap@enron.com>, "Ramy Mankarious (E-mail)” <Mankarious@aol.com>
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

-------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

'):

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.'
An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: 
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team.  PLEASE DO NOT TAKE, BORROW OR USE this equipment.  Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s?  We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE]|IMAGE]
[IMAGE]|IMAGE|
[IMAGE]|IMAGE|
[IMAGE]|IMAGE]
[IMAGE]|IMAGE]
[IMAGE]|IMAGE]
[IMAGE]|IMAGE]
[IMAGE]|IMAGE]
[IMAGE]|IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA''s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.
');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

');
Who is General Brinks?

Fletch;}
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com',
'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc '):

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

) :

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent* <kkoch@nisource.com>, " - *Millar, Debra* <dmillar@nisource.com>, " - *Burke, Lynn* <lburke@nisource.com>
cc: " - *Heckathorn, Tom* <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

INSERT INTO email(from,[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,' , 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');
INSERT INTO email(from,[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,' , 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email(from,[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email(from,[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email(from,[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com,"

------End of message------

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com',
'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are
stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference
(Distribution List 2)', 'Enron Law Conference
San Antonio, Texas    May 2–4, 2001    Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

"');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,
I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey'});

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.

ds
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Re: Tennessee Buy - Louis Dreyfus, ‘Beverly - once again thanks so much for your help on this.

')

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com;)

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',  
'william.bradford@enron.com, debbie.brackett@enron.com',','  
'Coastal Merchant Energy/El Paso Merchant Energy',  
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,  
L.P., effective February 1, 2001, with the surviving entity being El Paso  
Merchant Energy, L.P. We currently have ISDA Master Agreements with both  
counterparties. Please see the attached memo regarding the existing Masters  
and let us know which agreement should be terminated.

Thanks,  
Stephanie
');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com',','  
'RE: What about this too???,  

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not. F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG');
Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now
-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Relaint
Steve McGinn 713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$55 Variance found in table tblLoads.
  Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'justin.ward@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'justin.ward@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'justin.ward@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I’m seeing Glen at 11:15...talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg';

COMMIT;

} {}

###############################################################################
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
###############################################################################

do_test fts1c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}
do_test fts1c-2.5 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'gas reminder'
    }
}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.

# do_test fts1c-3.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
    }
}

# Snippet generator tests
#
# do_test fts1c-4.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
}

# do_test fts1c-4.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'christmas candlelight'
    }
}

# do_test fts1c-4.3 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
}

} {20 {2 0 42 3 2 1 54 8}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.

# do_test fts1c-3.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
    }
}

# Snippet generator tests
#
# do_test fts1c-4.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
}

# do_test fts1c-4.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'christmas candlelight'
    }
}

# do_test fts1c-4.3 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
}

} {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
Review Enron asset base for potential/reuse/licensing
Contract negotiations

```
do_test fts1c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
  Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
  Contract negotiations  }}
```

```
do_test fts1c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the  }}
```

```
do_test fts1c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}
```

```
do_test fts1c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
} {{<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
```

```
do_test fts1c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b>schedules awarded.
  Variances detected.
  Variances detected in <b>Load</b> schedule.

  LOG MESSAGES:

  PARSING <b>...</b>}}
```

# Combinations of AND and OR operators:

---

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 11126
do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:
31 Keystone Receipts
15 <b>Questar</b>/ Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

do_test fts1c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:
31 Keystone Receipts
15 <b>Questar</b>/ Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<i>Sources are in the <a href="copyright.html">public domain</a>.</i>
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
#$Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rt/010129/n29305829.html);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!!!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001
Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.

Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification:  (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com',
'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d.steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 11132
"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: 
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.??

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com, ', 'Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification: (West VaR - 11/07/2001), The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com,'
Enron / HPL Actuals for July 10, 2000

Teco Tap       10.000 / Enron
HPL IFERC

LS HPL LSK IC       30.000 / Enron

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com',
'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ''
'George,
Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report

Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
}

Thanks
----------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM
08:39 AM -----------------------
To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal :         East Northeast
Dick Jenkins:     East Marketeast

WK

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe:  + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.
Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcanтел@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com,' , 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
tax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.
Thanks,

Eric;

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here. SmartReminders.com is a permission-based service. To unsubscribe, click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben;

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01
Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: '"smara@enron.com"'
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
-------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 -----------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
c: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT
Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  - Finalize market analysis to refine business case, specifically projected revenue stream
  - Complete counterparty surveying, including targeting 3 CPs for letters of intent
  - Review Enron asset base for potential reuse/ licensing
  - Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT  
cc:  
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

');
INSERT INTO email([from],[to],[subject],[body]) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution’s Capacity Available for Release - Sum', '----------------------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM ---------------------------
agoddard@nisource.com on 03/08/2001 09:16:57 AM  
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');
INSERT INTO email([from],[to],[subject],[body]) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.

');
INSERT INTO email([from],[to],[subject],[body]) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', '- Oral Argument Request.doc');
INSERT INTO email([from],[to],[subject],[body]) VALUES('mike.carson@enron.com', 'rilmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is :')
Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

Shelley');

San Antonio, Texas May 2-4, 2001 Westin Riverwalk
See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,
I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,
In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com','david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com','Postings','Please see the attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com','cpatman@bracepatt.com,james_derrick@enron.com','Jurisprudence Luncheon','Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to take this risk off the books.
We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy;

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36,090 (principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip;

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance. Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney
-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list.  I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio
Coastal Merchant Energy/L.P. merged with and into El Paso Merchant Energy/L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Centana, Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks
chris
x31666)

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490)
Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com
Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374
Reliant
Steve McGinn
713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary
schedules awarded.
Variance detected.
Variance detected in load schedule.

LOGY MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztolzprint.jpg');

    COMMIT;
} 
} {}
do_test fts3ac-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}

do_test fts3ac-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}

do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}

do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}

do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
} {}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words 
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'"
# Snippet generator tests

## do_test fts3ac-4.1
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}

## do_test fts3ac-4.2
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}

## do_test fts3ac-4.3
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}

## do_test fts3ac-4.4
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}

## do_test fts3ac-4.5
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}

## do_test fts3ac-4.6
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}

## do_test fts3ac-4.7
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
}
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to the ISDA Master Agreement, together...
}

do_test fts3ac-4.8 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'ancillary load davis'
    }
} {{pete.davis@enron.com 3; No ancillary schedules awarded in Load schedule.

LOG

# Combinations of AND and OR operators:
#

do_test fts3ac-5.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'questar enron OR com'
    }
} {{matt.smith@enron.com 31 Keystone Receipts
15 Questar Pipeline
40 Rockies

do_test fts3ac-5.2 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'enron OR com questar'
    }
} {{matt.smith@enron.com 31 Keystone Receipts
15 Questar Pipeline
40 Rockies

#*****************************************************************************
# Test a problem reported on the mailing list.
#

do_test fts3ac-6.1 {
    execsql {
        CREATE VIRTUAL TABLE ft USING fts3(one, two);
        INSERT INTO ft VALUES('', 'foo');
        INSERT INTO ft VALUES('foo', 'foo');
        SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
    }
}
do_test fts3ac-6.2 {
  execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="#sqlite3">database connection</a> or the

Found in path(s):
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without a shared lock, other processes are free to modify the database

Found in path(s):
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Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %\%Copyright
No license file was found, but licenses were detected in source scan.

%\%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%\%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%\%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain
<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">SQLite Consortium Agreement</h1>

This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ___________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/ ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers
The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

2.1.2 Debugging Support

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

2.1.3 Custom Development

The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

2.1.4 Custom Builds
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
<p>The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.</p>

<h4>2.1.6 Custom Testing</h4>
<p>The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.</p>

<h4>2.1.7 Priority Bug Fixes</h4>
<p>The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.</p>

<h4>2.1.8 Code Quality</h4>
<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.</p>

<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org/ in good working order and all SQLite source code shall be made freely available at such website.</p>
<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as
many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

<h4>2.3.9 New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

2.3.10 Adequate Staff
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

2.3.11 Use Of Funds
Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

2.4 Responsibilities And Obligations Of Company

2.4.1 Funding
Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

2.4.2 Copyright Disclaimer
Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees
In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information
"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure.

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

4.2.1 Disclosure Required by Law

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise
its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>
5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.

6.0 Representations And Warranties

6.1 Intellectual Property Clearances.

Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.

6.2 Disclaimer.

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

7.0 Term And Termination

7.1 Term.

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of
termination to the defaulting party.

<h3>7.3 Survival.</h3>

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this
Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

8.4 Severability.

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

8.5 Integration.

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

8.6 Counterparts.

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

8.7 Governing Law.

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive
jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.

<table>
<thead>
<tr>
<th>HWACI</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>By:</td>
<td>By:</td>
</tr>
<tr>
<td>Print Name:</td>
<td>Print Name:</td>
</tr>
<tr>
<td>Title:</td>
<td>Title:</td>
</tr>
</tbody>
</table>

Found in path(s):

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

- <a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>

the public domain and originals of author, and all of those authors have public domain dedications

Even though SQLite is in the public domain and does not require
the public domain. </li>
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/copyright.html
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>. No claim of ownership is made

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/faq.html
No license file was found, but licenses were detected in source scan.

/ *
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* 
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
* 
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-src-3071700.zip-cosi-expand-archive-kRmLF99B/sqlite-src-3071700/test/threadtest3.c
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-src-3071700.zip-cosi-expand-archive-kRmLF99B/sqlite-src-3071700/src/tclsqlite.c
No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-
  3071700/c3ref/c_config_covering_index_scan.html
No license file was found, but licenses were detected in source scan.
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
**
*/

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#**************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
execsql {CREATE TABLE tbl1(t1 text)}
foreach word {this program is free software} {

execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
}
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
    set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
    set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
    execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
        ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
    execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
    execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}}
} {r s r o h}
do_test func-2.2 {
    execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
}

do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
}

do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"!="u1234"} {

    # Put some UTF-8 characters in the database
    #
    do_test func-3.0 {
      execsql {DELETE FROM tbl1}
      foreach word "contains UTF-8 characters hi\u1234ho" {
        execsql "INSERT INTO tbl1 VALUES('$word')"
      }
      execsql {SELECT t1 FROM tbl1 ORDER BY t1}
    } "UTF-8 characters contains hi\u1234ho"
    do_test func-3.1 {
      execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.2 {
      execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.3 {
      execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.4 {
      execsql {SELECT substr(t1,1,4) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.5 {
      execsql {SELECT substr(t1,1,5) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.6 {
      execsql {SELECT substr(t1,1,6) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.7 {
      execsql {SELECT substr(t1,1,7) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.8 {
      execsql {SELECT substr(t1,1,8) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.9 {
      execsql {SELECT substr(t1,1,9) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.10 {
      execsql {SELECT substr(t1,1,10) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.11 {
      execsql {SELECT substr(t1,1,11) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.12 {
      execsql {SELECT substr(t1,1,12) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.13 {
      execsql {SELECT substr(t1,1,13) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.14 {
      execsql {SELECT substr(t1,1,14) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.15 {
      execsql {SELECT substr(t1,1,15) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.16 {
      execsql {SELECT substr(t1,1,16) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.17 {
      execsql {SELECT substr(t1,1,17) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.18 {
      execsql {SELECT substr(t1,1,18) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.19 {
      execsql {SELECT substr(t1,1,19) FROM tbl1 ORDER BY t1}
    }
    do_test func-3.20 {
      execsql {SELECT substr(t1,1,20) FROM tbl1 ORDER BY t1}
    }

execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234u1234"
do_test func-3.5 {
execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- ha on i\u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \\ሴu1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
INSERT INTO t1 VALUES(3,-2,-5);

do_test func-4.2 {
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.6789 5}}

ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {

ifcapable !floatingpoint {
if {[working_64bit_int]} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 12345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
}
ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {

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catchsql {SELECT round(c,a) FROM t1 ORDER BY a}  
| 0  
| {3.0 -12345.68 -5.0}  
do_test func-4.10 {  
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}  
| 0  
| {x3.0y x-12345.68y x-5.0y}  
do_test func-4.11 {  
catchsql {SELECT round() FROM t1 ORDER BY a}  
| 1  
| [wrong number of arguments to function round()]}  
do_test func-4.12 {  
execsql {SELECT coalesce(round(a,2),'nil') FROM t2}  
| 1  
| {0.0 345.0 nil 67890.0}  
do_test func-4.13 {  
execsql {SELECT round(1.2) FROM tbl1}  
| 0  
| {0.0 0.0 0.0 0.0 0.0}  
do_test func-4.14 {  
execsql {SELECT typeof(round(5.1,1));}  
| {real}  
do_test func-4.15 {  
execsql {SELECT typeof(round(5.1));}  
| {real}  
do_test func-4.16 {  
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}  
| 0  
| {-2.0 1.23 2.0}  
# Verify some values reported on the mailing list.  
# Some of these fail on MSVC builds with 64-bit  
# long doubles, but not on GCC builds with 80-bit  
# long doubles.  
for {set i 1} {$i<999} {incr i} {  
set x1 [expr 40222.5 + $i]  
set x2 [expr 40223.0 + $i]  
do_test func-4.17.$i {  
execsql {SELECT round($x1);}  
} $x2  
}  
for {set i 1} {$i<999} {incr i} {  
set x1 [expr 40222.05 + $i]  
set x2 [expr 40222.10 + $i]  
do_test func-4.18.$i {  
execsql {SELECT round($x1,1);}  
} $x2  
}  
do_test func-4.20 {  
execsql {SELECT round(40223.4999999999999999);}  
| 40223.0}  
do_test func-4.21 {  
execsql {SELECT round(40224.4999999999999999);}  
| 40224.0}  
do_test func-4.22 {
execsql {SELECT round(40225.49999999999,0);} {40225.0}
for {set i 1} {i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.49999999999,$i);} {40223.5}
    } {40224.5}
    do_test func-4.24.$i {
        execsql {SELECT round(40224.49999999999,$i);} {40225.5}
    } {40225.5}
}
for {set i 10} {i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.49999999999,$i);} {40223.49999999999}
    } {40224.49999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.49999999999,$i);} {40225.49999999999}
    } {40225.49999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.49999999999,$i);} {40225.49999999999}
    } {40225.49999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);} {1234567891.0}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);} {12345678902.0}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);} {123456789013.0}
} {123456789013.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);} {1234567890124.0}
} {1234567890124.0}
do_test func-4.33 {
    execsql {SELECT round(12345678901234.5);} {12345678901235.0}
} {12345678901235.0}
do_test func-4.34 {
    execsql {SELECT round(1234567890123.35,1);} {1234567890123.4}
} {1234567890123.4}
do_test func-4.35 {
    execsql {SELECT round(1234567890123.445,2);} {1234567890123.445}
} {1234567890123.445}
do_test func-4.36 {
    execsql {SELECT round(99999999999994.5);} {99999999999994.5}
} {99999999999995.0}
do_test func-4.37 {
    execsql {SELECT round(9999999999999.55,1);}
} {9999999999999.6}
do_test func-4.38 {
    execsql {SELECT round(9999999999999.556,2);}
} {9999999999999.56}

# Test the upper() and lower() functions
#
do_test func-5.1 {
    execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
    execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
    execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
    catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
    execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
    execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
    execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
    execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
    execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
do_test func-7.1 {
    execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
    do_test func-8.1 {
        ifcapable explain {
            execsql {EXPLAIN SELECT sum(a) FROM t2;}
        }
        execsql {
            SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
        } {68236 3 22745.33 1 67890 5}
    }
    ifcapable !floatingpoint {
        do_test func-8.1 {
            ifcapable explain {
                execsql {EXPLAIN SELECT sum(a) FROM t2;}
            }
            execsql {
                SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
            } {68236 3 22745.0 1 67890 5}
        }
        do_test func-8.2 {
            execsql {
                SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
            } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
        }
    } else {
        do_test func-8.3 {
            execsql {
                CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
                SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
            } {z+abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
        }
    }
}

ifcapable tempdb {
    do_test func-8.3 {
        execsql {
            CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
            SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
        } {z+abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
    } else {
        do_test func-8.3 {
            execsql {
                CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
                SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
            } {z+abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
        }
    }
}
do_test func-8.4 {
  execsql {
    SELECT max('z+||a||abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOP') FROM t3;
  }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNOP}
ifcapable compound {
  do_test func-8.5 {
    execsql {
      SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
          UNION ALL SELECT -9223372036854775807)
    }
  } {0}
  do_test func-8.6 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
          UNION ALL SELECT -9223372036854775807)
    }
  } {integer}
  do_test func-8.7 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
          UNION ALL SELECT -9223372036850000000)
    }
  } {real}
  ifcapable floatingpoint {
    do_test func-8.8 {
      execsql {
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
          UNION ALL SELECT -9223372036850000000)
      }
    } {1}
    }
  ifcapable !floatingpoint {
    do_test func-8.8 {
      execsql {
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
          UNION ALL SELECT -9223372036850000000)
      }
    } {1}
    }
}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
}
do_test func-9.2 {
    execsql {
        SELECT typeof(random());
    }
}

do_test func-9.3 {
    execsql {
        SELECT randomblob(32) is not null;
    }
}

do_test func-9.4 {
    execsql {
        SELECT typeof(randomblob(32));
    }
}

do_test func-9.5 {
    execsql {
        SELECT length(randomblob(32)), length(randomblob(-5)), length(randomblob(2000));
    }
}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# "hex()".

if capable bloblit {
    do_test func-9.10 {
        execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')} {00112233445566778899AABBCCDDEEFF}
    }
    set encoding [db one {PRAGMA encoding}]
}

if {$encoding=="UTF-16le"} {
    do_test func-9.11-utf16le {
        execsql {SELECT hex(replace('abcdefg','ef','12'))} {6100620063006400310032006700}
    }
    do_test func-9.12-utf16le {
        execsql {SELECT hex(replace('abcdefg','a','aaa'))} {6100620063006400650066006700}
    }
    do_test func-9.13-utf16le {
        execsql {SELECT hex(replace('abcdefg','a';'a';'aaa'))} {610061006100610061006100610063006400650066006700}
    }
} elseif {$encoding=="UTF-8"} {
    do_test func-9.11-utf8 {
        execsql {SELECT hex(replace('abcdefg','ef','12'))} {61626364313267}
    }
    do_test func-9.12-utf8 {
        execsql {SELECT hex(replace('abcdefg','ef','12'))} {61626364313267}
    }
}
execsql {SELECT hex(replace('abcdefg','','12'))} } {61626364656667}
do_test func-9.13-utf8 {
  execsql {SELECT hex(replace('aabdefg','a','aaa'))} } {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
  catchsql {
    SELECT testfunc(NULL,NULL);
  }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
  execsql {
    SELECT testfunc(  
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',  
      'int', 1234
    );
  }
} {1234}
do_test func-10.3 {
  execsql {
    SELECT testfunc(  
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',  
      'string', NULL
    );
  }
} {{}}
ifcapable floatingpoint {
  do_test func-10.4 {
    execsql {
      SELECT testfunc(  
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',  
        'double', 1.234
      );
    }
} {1.234}
do_test func-10.5 {
  execsql {
    SELECT testfunc(  
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',  
      'double', 1.234
    );
  }
} {1.234}
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234
);
}
} {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
  execsql {
    SELECT sqlite_version(*);
  }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text() etc. are called. These tests use two special user-defined functions # (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the # text form of that argument. A destructor is associated with the return # value. Function test_destructor_count() returns the number of outstanding # destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
  do_test func-12.1-utf8 {
    execsql {
      SELECT test_destructor('hello world'), test_destructor_count();
    }
  } {{hello world} 1}
} else {
  ifcapable {utf16} {
    do_test func-12.1-utf16 {
      execsql {
        SELECT test_destructor16('hello world'), test_destructor_count();
      }
    } {{hello world} 1}
  }
}
do_test func-12.2 {
    execsql {
        SELECT test_destructor_count();
    }
    } {0}
do_test func-12.3 {
    execsql {
        SELECT test_destructor('hello') || ' world'
    }
    } {hello world}
do_test func-12.4 {
    execsql {
        SELECT test_destructor_count();
    }
    } {0}
do_test func-12.5 {
    execsql {
        CREATE TABLE t4(x);
        INSERT INTO t4 VALUES(test_destructor('hello'));
        INSERT INTO t4 VALUES(test_destructor('world'));
        SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
    }
    } {hello world}
do_test func-12.6 {
    execsql {
        SELECT test_destructor_count();
    }
    } {0}
do_test func-12.7 {
    execsql {
        DROP TABLE t4;
    }
    } {}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
    execsql {
        SELECT test_auxdata('hello world');
    }
    } {0}
do_test func-13.2 {
    execsql {
        CREATE TABLE t4(a, b);
    }
    }
INSERT INTO t4 VALUES('abc', 'def');
INSERT INTO t4 VALUES('ghi', 'jkl');
}
}{}
do_test func-13.3 {
execsql {
    SELECT test_auxdata('hello world') FROM t4;
}
} {0 1}
do_test func-13.4 {
execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
}
} {{0 0} {1 1}}
do_test func-13.5 {
execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
}
} {{0 0} {1 0}}
do_test func-13.6 {
execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
}
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
    set DB [sqlite3_connection_pointer db]
    set sql "SELECT test_auxdata( ?, a ) FROM t4;"
    set STMT [sqlite3_prepare $DB $sql -1 TAIL]
    sqlite3_bind_text $STMT 1 hello\000 -1
    set res [list]
    while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
        lappend res [sqlite3_column_text $STMT 0]
    }
    lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected.
do_test func-14.1 {
catch {
    db function [string repeat X 254] {return "hello"}
}
} {0}
do_test func-14.2 {
catch {
    db function [string repeat X 256] {return "hello"}
}
}
do_test func-15.1 {
  catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
  catchsql {select test_error('this is the error message')}  
} {1 {this is the error message}}
do_test func-15.3 {
  catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
  db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
  execsql {
    CREATE TABLE tbl2(a, b);
  }  
  set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
  sqlite3_bind_blob $::STMT 1 abc 3
  sqlite3_step $::STMT
  sqlite3_finalize $::STMT
  execsql {
    SELECT quote(a), quote(b) FROM tbl2;
  }
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#  
do_test func-17.1 {
  proc testfunc1 args {error "Error %d with %s percents %p"}
  db function testfunc1 ::testfunc1
  catchsql {
    SELECT testfunc1(1,2,3);
  }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
  execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
  }
}
if capable floatingpoint {
  do_test func-18.2 {
    execsql {
      INSERT INTO t5 VALUES(0.0);
      SELECT sum(x) FROM t5;
    }
  } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
  execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
  }
} {{} 0.0}
do_test func-18.4 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{} 0.0}
do_test func-18.5 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{} 0.0}
do_test func-18.6 {
  execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
  }
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
  execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
  }
}
INSERT INTO t6 VALUES(1<<62);
SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
execsql {
    SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
} 1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} 1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
}
} 0.0
}
if {[working_64bit_int]} {
do_test func-18.14 {
execsql {
    SELECT sum(-9223372036854775805);
}
} -9223372036854775805
}
ifcapable compound&&subquery {
do_test func-18.15 {
catchsql {
    SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL

SELECT 10 AS x;
}
} {1 {integer overflow}}
if [[working_64bit_int]] {
do_test func-18.16 {
catchsql {
    SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
        SELECT -10 AS x);
    }
} {0 9223372036854775797}
do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
    }
} {0 -9223372036854775797}
do_test func-18.18 {
catchsql {
    SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
        SELECT -10 AS x);
    }
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
    }
} {0 -1}
do_test func-18.20 {
catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
    }
} {0 1}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
    }
} {0 -1}
do_test func-18.22 {
catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
    }
} {0 1}
} ;# ifcapable compound&&subquery
# Integer overflow on abs()
#
if {[working_64bit_int]} {
    do_test func-18.31 {
        catchsql {
            SELECT abs(-9223372036854775807);
        } {0 9223372036854775807}
    }
    do_test func-18.32 {
        catchsql {
            SELECT abs(-9223372036854775807-1);
        } {1 {integer overflow}}
    }
}

# The MATCH function exists but is only a stub and always throws an error.
#
if {![catch {db eval {SELECT match(a,b) FROM t1 WHERE 0}}]} {
    set i 0
    foreach {name sdx} {
        euler        E460
        euler        E460
        euler        E460
        euler        E460
    }
}

# Soundex tests.
#
if {[![catch {db eval {SELECT soundex('hello')}}]}]} {
    set i 0
    foreach {name sdx} {
        euler        E460
        euler        E460
        euler        E460
        euler        E460
    }
}

gauss    G200
ghosh    G200
hilbert  H416
Heilbronn H416
knuth    K530
kant     K530
Lloyd    L300
LADD     L300
Lukasiewicz L222
Lissajous L222
A        A000
12345    000

} {
  incr i
do_test func-20.$i {
    execsql {SELECT soundex($name)}
} $sdx
}
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
catchsql {
    SELECT replace(1,2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
    SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
}
} {null}
do_test func-21.6 {
execsql {
    SELECT replace("This is the main test string", "main", "ALT");
} {{This is the ALT test string}}

do_test func-21.7 {
execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
} {{This is the larger-main test string}}

if capable tclvar {
    do_test func-21.9 {
        # Attempt to exploit a buffer-overflow that at one time existed
        # in the REPLACE function.
        set ::str "[string repeat A 29998]CC[string repeat A 35537]"
        set ::rep [string repeat B 65536]
        execsql {
            SELECT LENGTH(REPLACE($::str, 'C', $::rep));
        }
        } [expr 29998 + 2*65536 + 35537]
    }

# Tests for the TRIM, LTRIM and RTRIM functions.
#
    do_test func-22.1 {
        catchsql {SELECT trim(1,2,3)}
    } {1 {wrong number of arguments to function trim()}}
    do_test func-22.2 {
        catchsql {SELECT ltrim(1,2,3)}
    } {1 {wrong number of arguments to function ltrim()}}
    do_test func-22.3 {
        catchsql {SELECT rtrim(1,2,3)}
    } {1 {wrong number of arguments to function rtrim()}}
    do_test func-22.4 {
        execsql {SELECT trim('  hi  ')}
    } {hi}
    do_test func-22.5 {
        execsql {SELECT ltrim('  hi  ')}
    } {{hi}}
    do_test func-22.6 {
        execsql {SELECT rtrim('  hi  ')}
    } {{ hi}}
    do_test func-22.7 {


execsql {SELECT trim(‘ hi ‘,’xyz’);} } } { hi }
do_test func-22.8 {
execsql {SELECT ltrim(‘ hi ‘,’xyz’);} } hi

do_test func-22.9 {
execsql {SELECT rtrim(‘ hi ‘,’xyz’);} } hi

do_test func-22.10 {
execsql {SELECT trim(‘xyzzy hi zzyz’,’xyz’);} } hi zzy

do_test func-22.11 {
execsql {SELECT ltrim(‘xyzzy hi zzyz’,’xyz’);} } hi zzy

do_test func-22.12 {
execsql {SELECT rtrim(‘xyzzy hi zzyz’,’xyz’);} } xyzzy hi

do_test func-22.13 {
execsql {SELECT trim(‘ hi ‘,’ ’);} } hi

if {

} { db one {PRAGMA encoding}=="UTF-8" } {

do_test func-22.14 {
execsql {SELECT hex(trim(x’c280e1bfbff48fbbf6869’ , x’6162e1bbff48fbbf6869’))} } {F48FBFBF6869 }
do_test func-22.15 {
execsql {SELECT hex(trim(x’6869c280e1bfaff48fbbf61’ , x’6162e1bbff48fbbf61’))} } {6869 }
do_test func-22.16 {
execsql {SELECT hex(trim(x’ceb1ceb2ceb3’ , x’ceb1’) )} } {CEB2CEB3 }

do_test func-22.20 {
execsql {SELECT typeof(trim(NULL));} } {null }
do_test func-22.21 {
execsql {SELECT typeof(trim(NULL,’xyz’));} } {null }
do_test func-22.22 {
execsql {SELECT typeof(‘hello’,NULL);} } {null }

# This is to test the deprecated sqlite3_aggregate_count() API.
#
if { capable deprecated } {
do_test func-23.1 {
sqlite3_create_aggregate db
execsql {
SELECT legacy_count() FROM t6;
}
} {3}
}

# The group_concat() function.
#
do_test func-24.1 {
execsql {
    SELECT group_concat(t1) FROM tbl1
}
} {this,program,is,free,software}
do_test func-24.2 {
execsql {
    SELECT group_concat(t1,’’) FROM tbl1
}
} {{this program is free software}}
do_test func-24.3 {
execsql {
    SELECT group_concat(t1,’ ’ || rowid || ’ ’) FROM tbl1
}
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
}
} {{}}
do_test func-24.5 {
execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
}
} {thisprogramisfreesoftware}
do_test func-24.6 {
execsql {
    SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
}
} {BEGIN-this,program,is,free,software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
append midargs '/$i'
append midres '/$i'
set result [md5 \\
  "this${midres}program${midres}is${midres}free${midres}software${midres}" ]
set sql "SELECT md5sum(t1 midfield args) FROM tbl1"
do_test func-24.7.$i {
  db eval $::sql
} $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ' ' ELSE t1 END) FROM tbl1
  }
} {.program.is.free.software}
do_test func-24.9 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN ' ' ELSE t1 END) FROM tbl1
  }
} {,..,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
  }
} {program.is.free.software}
do_test func-24.11 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
  }
} {software}
do_test func-24.12 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
      WHEN 'program' THEN null ELSE t1 END) FROM tbl1
  }
} {,.is.free.software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
    execsql (SELECT test_isolation(t1,t1) FROM tbl1)
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
    abuse_create_function db
} {}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
    set a {}
    for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
        lappend a $i
    }
    db eval "
        SELECT
            nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
        ([join $a ,]);
    "
} {}
do_test func-26.3 {
    set a {}
    for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
        lappend a $i
    }
    catchsql "
        SELECT
            nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
            ([join $a ,]);
    "
} {1 {too many arguments on function
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
        (})
} {}
do_test func-26.4 {
    set a {}
    for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
        lappend a $i
    }
    catchsql "
        SELECT
            nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
            ([join $a ,]);
    "
} {1 {too many arguments on function
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
        (})
} {1 {too many arguments on function
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
        (})
}
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}
# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));

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catchsql {  
  INSERT INTO t28(x) VALUES(1);  
}  
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load  
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}
do_test func-29.3 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
do_test func-29.4 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x>100} {set x many}
  set x
} {many}
}
do_test func-29.5 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
}
set x
} {1]

do_execsql_test func-30.1 {SELECT unicode('$');} 36

do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162

do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364

do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}] 8364

for {set i 1} {$i<0xd800} {incr i 13} {
  do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

for {set i 57344} {$i<=0xfffd} {incr i 17} {
  if {$i==0xfeff} continue
  do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

for {set i 65536} {$i<=0x10ffff} {incr i 139} {
  do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

Found in path(s):

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

other proprietary or non-standard VFSes.

Found in path(s):

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<html>
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<body bgcolor="white">
<h1 align="center">
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</h1>
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<p>
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the definition of "SQLite software” in this document because the
process of compiling the software may introduce information from
outside sources which is not properly a part of SQLite.
</p>

<p>
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In the spirit of that exhortation I make the following declarations:
</p>

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was publicly available on the SQLite website (http://www.sqlite.org/) prior
to the date of the signature below and any changes or enhancements to
the SQLite software
that I may cause to be published on that website in the future.
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to the detriment of my heirs and successors. I intend this
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is free to use SQLite from multiple threads, but it must make sure

Suppose the demo_data.boundary field holds some proprietary data description

/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code. In place of
 ** a legal notice, here is a blessing:
 **
 */
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This file contains the VFS implementation for unix-like operating systems include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.

There are actually several different VFS implementations in this file.
The differences are in the way that file locking is done. The default implementation uses Posix Advisory Locks. Alternative implementations use flock(), dot-files, various proprietary locking schemas, or simply skip locking all together.

This source file is organized into divisions where the logic for various subfunctions is contained within the appropriate division. PLEASE KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed in the correct division and should be clearly labeled.

The layout of divisions is as follows:

* General-purpose declarations and utility functions.
* Unique file ID logic used by VxWorks.
* Various locking primitive implementations (all except proxy locking):
  + for Posix Advisory Locks
  + for no-op locks
  + for dot-file locks
  + for flock() locking
  + for named semaphore locks (VxWorks only)
  + for AFP filesystem locks (MacOSX only)
* sqlite3_file methods not associated with locking.
* Definitions of sqlite3_io_methods objects for all locking methods plus "finder" functions for each locking method.
* sqlite3 vfs method implementations.
* Locking primitives for the proxy uber-locking-method. (MacOSX only)
* Definitions of sqlite3 vfs objects for all locking methods
  plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

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# 2012 May 21
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# NB: Portions of this file are extracted from open-source projects
# covered by permissive licenses. Use of this file for testing is clearly
# allowed. However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
##***********************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
    db eval {
        CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent TEXT NOT NULL DEFAULT ",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",b_blob BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL


CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')), d_date DATE NOT NULL, t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')), i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));

CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL, i_object_id INTEGER NOT NULL, t_object_table TEXT NOT NULL, t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')), t_sqlorder TEXT NOT NULL DEFAULT '');

CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL, t_message TEXT NOT NULL DEFAULT '', t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));

CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_symbol TEXT NOT NULL DEFAULT '', t_country TEXT NOT NULL DEFAULT '', t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')), t_internet_code TEXT NOT NULL DEFAULT '', i_nbdecimal INT NOT NULL DEFAULT 2, rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');

CREATE TABLE unitvalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_unit_id INTEGER NOT NULL, d_date DATE NOT NULL, f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));

CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_bank_number TEXT NOT NULL DEFAULT '', t_icon TEXT NOT NULL DEFAULT '');

CREATE TABLE interest (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_account_id INTEGER NOT NULL, d_date DATE NOT NULL, f_rate FLOAT NOT NULL CHECK (f_rate>=0), t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));

CREATE TABLE operation (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, i_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0 CHECK (i_number>=0), d_date DATE NOT NULL DEFAULT '0000-00-00', rd_account_id INTEGER NOT NULL, t_mode TEXT NOT NULL DEFAULT '', r_payee_id INTEGER NOT NULL DEFAULT 0, t_comment TEXT NOT NULL DEFAULT '', rc_unit_id INTEGER NOT NULL DEFAULT 0, t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')), t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')), i_tmp INTEGER NOT NULL DEFAULT 0, r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);

CREATE TABLE operationbalance (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, f_balance FLOAT NOT NULL DEFAULT 0, r_operation_id INTEGER NOT NULL);

CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));

CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE suboperation (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_comment TEXT NOT NULL DEFAULT '', rd_operation_id INTEGER NOT NULL, r_category_id INTEGER NOT NULL DEFAULT 0, f_value FLOAT NOT NULL DEFAULT 0, i_tmp INTEGER NOT NULL DEFAULT 0, r_operation_id INTEGER NOT NULL DEFAULT 0, i_tmp INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT '');
CREATE TABLE `rule` (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_description TEXT NOT NULL DEFAULT '', t_definition TEXT NOT NULL DEFAULT '', t_action_description TEXT NOT NULL DEFAULT '', t_action_definition TEXT NOT NULL DEFAULT '', t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), f_sortorder FLOAT);

CREATE TABLE `budget` (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')), f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12);

CREATE TABLE `budgetcategory` (id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0);

CREATE TABLE `budgetrule` (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')), t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')), i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')), i_month INTEGER NOT NULL DEFAULT 0, i_condition INTEGER NOT NULL DEFAULT 0, f_quantity FLOAT NOT NULL DEFAULT 0.0, t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')), rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')), t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('Y', 'N')));

CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, d_date DATE NOT NULL DEFAULT '0000-00-00', rd_operation_id INTEGER NOT NULL, i_period_increment INTEGER NOT NULL DEFAULT 1, t_period_unit TEXT NOT NULL DEFAULT 'M', t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')), i_auto_write_days INTEGER NOT NULL DEFAULT 5, t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')), i_warn_days INTEGER NOT NULL DEFAULT 5, t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')));

CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_fullname TEXT, rd_category_id INT, t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE "account" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_number TEXT NOT NULL DEFAULT '', t_agency_number TEXT NOT NULL DEFAULT '', t_agency_address TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')), t_type VARCHAR(1) NOT NULL DEFAULT 'C', t_data TEXT, rd_bank_id INTEGER NOT NULL);

CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_fullname TEXT,
"f_sortorder FLOAT", t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')));

CREATE TABLE vm_category_display_tmp(id INT,
t_name TEXT,
t_fullname TEXT)
CREATE TABLE vm_budget_tmp(
id INT,
rc_category_id INT,
t_including_subcategories TEXT,
f_budgeted REAL,
f_budgeted_modified REAL,
f_transferred REAL,
i_year INT,
i_month INT,
t_CATEGORY,
t_PERIOD,
f_CURRENTAMOUNT,
t_RULES
);

CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_item_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_item_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rdOperation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET     t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN     new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END     WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE node SET     t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN     new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END     WHERE id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilises par account) Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilises par account) Nom de la contrainte: fku_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON account FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilises par budget) Nom de la contrainte: fkdc_bank_account_id_rd_bank_id')   WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id='' AND (SELECT id FROM budgetcategory WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilises par budget) Nom de la contrainte: fki_budget_category_rc_category_id_id')   WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id='' AND (SELECT id FROM budgetcategory WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budget) Nom de la contrainte: fku_budget_category_rc_category_id_id')       WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budget) Nom de la contrainte: fkd_budget_category_rc_category_id_id')     WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id')   WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id')       WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id_id')     WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par category) Nom de la contrainte: fki_category_category_rd_category_id_id')   WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category) Nom de la contrainte: fku_category_category_rd_category_id_id')       WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_target_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par category) Nom de la contrainte: fkd_category_category_rd_category_id_target_id_id')     WHERE (SELECT rd_category_id_target FROM category WHERE rd_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionitem)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE DELETE ON doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransaction FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransaction)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE DELETE ON doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON suboperation
FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON suboperation
FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par subopération) Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par subopération) Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkdc_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.r_category_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de détruire un objet (category est utilisé par vm_budget_tmp) Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE...
unit.t_type WHEN 'l' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'c' THEN 'Monnaie' WHEN 's' THEN 'Action' WHEN 'i' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;

CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;

CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT FROM v_unit_tmp2;

CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;

CREATE VIEW v_unit AS SELECT *,v_unitvalue_displayname.t_displayname FROM unitvalue;

CREATE VIEW v_suboperation AS SELECT * FROM suboperation;

CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;

CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;

CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;

CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,(SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY= v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;

CREATE VIEW v_operation_displayname AS SELECT *, tPAYEE, (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;

CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n''êtes pas autoris é à supprimer cette opération car elle est rapprochée'' END) t_delete_message FROM account;

CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;

CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname
r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce tiers car utilisé par des opérations rapprochées' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%' AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;
CREATE VIEW v_category_display_TMP AS SELECT *, (SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID) AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_TMP c WHERE c.t_fullname LIKE vm_category_display_TMP.t_fullname||' %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_TMP c WHERE c.t_fullname LIKE vm_category_display_TMP.t_fullname||' %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_TMP.t_fullname||' %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_TMP.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_TMP.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE,(CASE WHEN vm_category_display_TMP.f_REALCURRENTAMOUNT<0 THEN 'Dépense' WHEN vm_category_display_TMP.f_REALCURRENTAMOUNT=0 THEN 'Revenu' END) AS t_TYPEEXPENSENLS FROM vm_category_display_TMP;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Négatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '' ELSE budgetrule.t_symbol END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHATNLS, t_RULENLS FROM v_budgetrule;
CREATE VIEW v_budgetrule AS SELECT t.CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),") AS t_CATEGORIES, (i_year||(CASE WHEN i_month=0 THEN "0" WHEN i_month<10 THEN '0'||i_month ELSE '0'||(i_month END)) AS t_PERIODE, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN Table: DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;

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CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW
BEGIN    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'|'||budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '|new.t_name
END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE
c.id=new.rd_category_id)||' > '|new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name
WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/* Goto */}

# The next test requires FTS4
if capable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
        CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT
NULL, UNIQUE (Uri));
        CREATE VIRTUAL TABLE fts USING fts4;
        CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
        CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
        CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER,
"mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime" INTEGER,
"mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
| CREATE TABLE | "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, |
| "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, |
| "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER); |
| CREATE TABLE | "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, |
| "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, |
| "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER); |
| CREATE TABLE | "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, |
| "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER); |
| CREATE TABLE | "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, |
| "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE | "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, |
| "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, |
| "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE | "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, |
| "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, |
| "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, |
| "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE | "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, |
| "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, |
| "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" |
| TEXT NOT NULL, "mlo:city:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, |
| "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, |
| "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER); |
| CREATE TABLE | "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, |
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL, "mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL, "mto:transferPrivacyLevel" TEXT NOT NULL, "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT NULL, "mto:transferCategory" TEXT NOT NULL, "mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY, "nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph" INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY, "nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER, "nao:description" TEXT COLLATE NOCASE, "nao:description:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL, "tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL, "tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL, "ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
<table>
<thead>
<tr>
<th>TABLE NAME</th>
<th>ID COLUMN TYPE</th>
<th>PRIMARY KEY</th>
<th>NOT NULL</th>
<th>TEXT COLLATE</th>
<th>GRAPH COLUMN</th>
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<tbody>
<tr>
<td>ncal:Attachment</td>
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<tr>
<td>ncal:AttachmentUri</td>
<td>INTEGER</td>
<td></td>
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<td>graph INTEGER</td>
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<tr>
<td>ncal:fmttype</td>
<td>TEXT COLLATE NOCASE</td>
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<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:encoding</td>
<td>INTEGER</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:attachmentContent</td>
<td>TEXT COLLATE NOCASE</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
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<tr>
<td>ncal:AttachmentEncoding</td>
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</tr>
<tr>
<td>ncal:Attendee</td>
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<tr>
<td>ncal:delegatedTo</td>
<td>INTEGER</td>
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<td></td>
<td></td>
<td>graph INTEGER</td>
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<tr>
<td>ncal:delegatedFrom</td>
<td>INTEGER</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:cutype</td>
<td>INTEGER</td>
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<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:member</td>
<td>INTEGER</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:role</td>
<td>INTEGER</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:AttendeeOrOrganizer</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ncal:dir</td>
<td>INTEGER</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:involvedContact</td>
<td>INTEGER</td>
<td></td>
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<td></td>
<td>graph INTEGER</td>
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<tr>
<td>ncal:bydayRulePart</td>
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<td>PRIMARY KEY</td>
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<tr>
<td>ncal:bydayRulePart_ncal:bydayModifier</td>
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<td>graph INTEGER</td>
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<td>ncal:calendar</td>
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<td>ncal:method</td>
<td>TEXT COLLATE NOCASE</td>
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<tr>
<td>ncal:calscale</td>
<td>INTEGER</td>
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<td>graph INTEGER</td>
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<tr>
<td>ncal:prodid</td>
<td>TEXT COLLATE NOCASE</td>
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<td></td>
<td>graph INTEGER</td>
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<tr>
<td>ncal:version</td>
<td>TEXT COLLATE NOCASE</td>
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<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:Freebusy</td>
<td>INTEGER</td>
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<tr>
<td>ncal:fbtype</td>
<td>INTEGER</td>
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<td></td>
<td>graph INTEGER</td>
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<td>ncal:FreebusyPeriod</td>
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<tr>
<td>ncal:fbtype</td>
<td>INTEGER</td>
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<td></td>
<td>graph INTEGER</td>
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<tr>
<td>ncal:FreebusyType</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
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</tr>
<tr>
<td>ncal:freebusy</td>
<td>INTEGER</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
</tr>
<tr>
<td>ncal:Journal</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
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</tr>
<tr>
<td>ncal:journalStatus</td>
<td>INTEGER</td>
<td></td>
<td></td>
<td></td>
<td>graph INTEGER</td>
</tr>
</tbody>
</table>

CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER, "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER, "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER, "ncal:attachmentContent" TEXT COLLATE NOCASE, "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER, "ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER, "ncal:bydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY), "ncal:bydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL, "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL, "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER, "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL, "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Columns</th>
</tr>
</thead>
<tbody>
<tr>
<td>ncal:JournalStatus</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
</tbody>
</table>
| ncal:NcalDateTime | ID INTEGER NOT NULL PRIMARY KEY,  
|           | "ncal:ncalTimezone" INTEGER,  
|           | "ncal:ncalTimezone:graph" INTEGER,  
|           | "ncal:date" INTEGER,  
|           | "ncal:date:graph" INTEGER,  
|           | "ncal:date:localDate" INTEGER,  
|           | "ncal:date:localTime" INTEGER,  
|           | "ncal:dateTime" INTEGER,  
|           | "ncal:dateTime:graph" INTEGER,  
|           | "ncal:dateTime:localDate" INTEGER,  
|           | "ncal:dateTime:localTime" INTEGER |}
| ncal:NcalPeriod | ID INTEGER NOT NULL PRIMARY KEY,  
|             | "ncal:periodBegin" INTEGER,  
|             | "ncal:periodBegin:graph" INTEGER,  
|             | "ncal:periodBegin:localDate" INTEGER,  
|             | "ncal:periodBegin:localTime" INTEGER,  
|             | "ncal:periodDuration" INTEGER,  
|             | "ncal:periodDuration:graph" INTEGER,  
|             | "ncal:periodEnd" INTEGER,  
|             | "ncal:periodEnd:graph" INTEGER,  
|             | "ncal:periodEnd:localDate" INTEGER,  
|             | "ncal:periodEnd:localTime" INTEGER |}
| ncal:NcalTimeEntity | ID INTEGER NOT NULL PRIMARY KEY |
| ncal:Organizer | ID INTEGER NOT NULL PRIMARY KEY |
| ncal:ParticipationStatus | ID INTEGER NOT NULL PRIMARY KEY |
| ncal:RecurrenceFrequency | ID INTEGER NOT NULL PRIMARY KEY |
| ncal:RecurrenceIdentifier | ID INTEGER NOT NULL PRIMARY KEY,  
|             | "ncal:range" INTEGER,  
|             | "ncal:range:graph" INTEGER,  
|             | "ncal:recurrenceIdDateTime" INTEGER,  
|             | "ncal:recurrenceIdDateTime:graph" INTEGER |}
| ncal:RecurrenceIdentifierRange | ID INTEGER NOT NULL PRIMARY KEY |
| ncal:RecurrenceRule | ID INTEGER NOT NULL PRIMARY KEY,  
|             | "ncal:until" INTEGER,  
|             | "ncal:until:graph" INTEGER,  
|             | "ncal:until:localDate" INTEGER,  
|             | "ncal:until:localTime" INTEGER,  
|             | "ncal:wkst" INTEGER,  
|             | "ncal:wkst:graph" INTEGER,  
|             | "ncal:interval" INTEGER,  
|             | "ncal:interval:graph" INTEGER,  
|             | "ncal:count" INTEGER,  
|             | "ncal:count:graph" INTEGER,  
|             | "ncal:freq" INTEGER,  
|             | "ncal:freq:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:byday | ID INTEGER NOT NULL,  
|                     | "ncal:byday" INTEGER NOT NULL,  
|                     | "ncal:byday:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:byhour | ID INTEGER NOT NULL,  
|                     | "ncal:byhour" INTEGER NOT NULL,  
|                     | "ncal:byhour:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:byminute | ID INTEGER NOT NULL,  
|                     | "ncal:byminute" INTEGER NOT NULL,  
|                     | "ncal:byminute:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:bymonth | ID INTEGER NOT NULL,  
|                     | "ncal:bymonth" INTEGER NOT NULL,  
|                     | "ncal:bymonth:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:bymonthday | ID INTEGER NOT NULL,  
|                     | "ncal:bymonthday" INTEGER NOT NULL,  
|                     | "ncal:bymonthday:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:bysecond | ID INTEGER NOT NULL,  
|                     | "ncal:bysecond" INTEGER NOT NULL,  
|                     | "ncal:bysecond:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:bysetpos | ID INTEGER NOT NULL,  
|                     | "ncal:bysetpos" INTEGER NOT NULL,  
|                     | "ncal:bysetpos:graph" INTEGER |}
| ncal:RecurrenceRule_ncal:byweekno | ID INTEGER NOT NULL,  
|                     | "ncal:byweekno" INTEGER NOT NULL,  
|                     | "ncal:byweekno:graph" INTEGER |}
<p>| ncal:RecurrenceRule_ncal:byyearday | ID INTEGER NOT NULL |</p>
<table>
<thead>
<tr>
<th>SQL Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREATE TABLE &quot;ncal:RequestStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:statusDescription&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:statusDescription:graph&quot; INTEGER, &quot;ncal:returnStatus&quot; TEXT</td>
</tr>
<tr>
<td>COLLATE NOCASE, &quot;ncal:returnStatus:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:requestStatusData&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:requestStatusData:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:TimeTransparency&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Timezone&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:tzurl&quot; INTEGER, &quot;ncal:tzurl:graph&quot; INTEGER, &quot;ncal:standard&quot;</td>
</tr>
<tr>
<td>INTEGER, &quot;ncal:standard:graph&quot; INTEGER, &quot;ncal:daylight&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:daylight:graph&quot; INTEGER, &quot;ncal:tzid&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:tzid:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Todo&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:percentComplete&quot; INTEGER, &quot;ncal:percentComplete:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:completed&quot; INTEGER, &quot;ncal:completed:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:completed:localDate&quot; INTEGER, &quot;ncal:completed:localTime&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:todoStatus&quot; INTEGER, &quot;ncal:todoStatus:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:due&quot; INTEGER, &quot;ncal:due:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:TodoStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Trigger&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:related&quot; INTEGER, &quot;ncal:related:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:triggerDateTime&quot; INTEGER, &quot;ncal:triggerDateTime:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:triggerDateTime:localDate&quot; INTEGER,</td>
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<tr>
<td>&quot;ncal:triggerDateTime:localTime&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:triggerDuration&quot; INTEGER, &quot;ncal:triggerDuration:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:TriggerRelation&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:UnionParentClass&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:lastModified&quot; INTEGER, &quot;ncal:lastModified:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:lastModified:localDate&quot; INTEGER, &quot;ncal:lastModified:localTime&quot;</td>
</tr>
<tr>
<td>INTEGER, &quot;ncal:trigger&quot; INTEGER, &quot;ncal:trigger:graph&quot; INTEGER,</td>
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<tr>
<td>&quot;ncal:created&quot; INTEGER, &quot;ncal:created:graph&quot; INTEGER,</td>
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<tr>
<td>&quot;ncal:created:localDate&quot; INTEGER, &quot;ncal:created:localTime&quot; INTEGER,</td>
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<tr>
<td>&quot;ncal:url&quot; INTEGER, &quot;ncal:url:graph&quot; INTEGER, &quot;ncal:comment&quot; TEXT</td>
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<tr>
<td>COLLATE NOCASE, &quot;ncal:comment:graph&quot; INTEGER, &quot;ncal:summaryAltRep&quot;</td>
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<tr>
<td>INTEGER, &quot;ncal:summaryAltRep:graph&quot; INTEGER, &quot;ncal:priority&quot; INTEGER,</td>
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<tr>
<td>&quot;ncal:priority:graph&quot; INTEGER, &quot;ncal:location&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:location:graph&quot; INTEGER, &quot;ncal:uid&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:uid:graph&quot; INTEGER, &quot;ncal:requestStatus&quot; INTEGER,</td>
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<tr>
<td>&quot;ncal:requestStatus:graph&quot; INTEGER, &quot;ncal:recurrenceId&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:recurrenceId:graph&quot; INTEGER, &quot;ncal:dtstamp&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:dtstamp:graph&quot; INTEGER, &quot;ncal:dtstamp:localDate&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:byyearday&quot; INTEGER NOT NULL, &quot;ncal:byyearday:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:RequestStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
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<td>&quot;ncal:statusDescription&quot; TEXT COLLATE NOCASE,</td>
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<tr>
<td>&quot;ncal:statusDescription:graph&quot; INTEGER, &quot;ncal:returnStatus&quot; TEXT</td>
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<tr>
<td>COLLATE NOCASE, &quot;ncal:returnStatus:graph&quot; INTEGER,</td>
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<tr>
<td>&quot;ncal:requestStatusData&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:requestStatusData:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:TimeTransparency&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Timezone&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:tzurl&quot; INTEGER, &quot;ncal:tzurl:graph&quot; INTEGER, &quot;ncal:standard&quot;</td>
</tr>
<tr>
<td>INTEGER, &quot;ncal:standard:graph&quot; INTEGER, &quot;ncal:daylight&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:daylight:graph&quot; INTEGER, &quot;ncal:tzid&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:tzid:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:Todo&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:percentComplete&quot; INTEGER, &quot;ncal:percentComplete:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:completed&quot; INTEGER, &quot;ncal:completed:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:completed:localDate&quot; INTEGER, &quot;ncal:completed:localTime&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:todoStatus&quot; INTEGER, &quot;ncal:todoStatus:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:due&quot; INTEGER, &quot;ncal:due:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:TodoStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Trigger&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:related&quot; INTEGER, &quot;ncal:related:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:triggerDateTime&quot; INTEGER, &quot;ncal:triggerDateTime:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:triggerDateTime:localDate&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:triggerDateTime:localTime&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:triggerDuration&quot; INTEGER, &quot;ncal:triggerDuration:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:TriggerRelation&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:UnionParentClass&quot; (ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td>&quot;ncal:lastModified&quot; INTEGER, &quot;ncal:lastModified:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:lastModified:localDate&quot; INTEGER, &quot;ncal:lastModified:localTime&quot;</td>
</tr>
<tr>
<td>INTEGER, &quot;ncal:trigger&quot; INTEGER, &quot;ncal:trigger:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:created&quot; INTEGER, &quot;ncal:created:graph&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:created:localDate&quot; INTEGER, &quot;ncal:created:localTime&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:url&quot; INTEGER, &quot;ncal:url:graph&quot; INTEGER, &quot;ncal:comment&quot; TEXT</td>
</tr>
<tr>
<td>COLLATE NOCASE, &quot;ncal:comment:graph&quot; INTEGER, &quot;ncal:summaryAltRep&quot;</td>
</tr>
<tr>
<td>INTEGER, &quot;ncal:summaryAltRep:graph&quot; INTEGER, &quot;ncal:priority&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:priority:graph&quot; INTEGER, &quot;ncal:location&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:location:graph&quot; INTEGER, &quot;ncal:uid&quot; TEXT COLLATE NOCASE,</td>
</tr>
<tr>
<td>&quot;ncal:uid:graph&quot; INTEGER, &quot;ncal:requestStatus&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:requestStatus:graph&quot; INTEGER, &quot;ncal:recurrenceId&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:recurrenceId:graph&quot; INTEGER, &quot;ncal:dtstamp&quot; INTEGER,</td>
</tr>
<tr>
<td>&quot;ncal:dtstamp:graph&quot; INTEGER, &quot;ncal:dtstamp:localDate&quot; INTEGER,</td>
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"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE NOCASE,
"ncal:relatedToSibling:graph" INTEGER, "ncal:duration"
"ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT
NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT
NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT
NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT
NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT
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"ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT
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"ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT
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CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY, "nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER, "nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL, "nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY, "nco:contactGroupName" TEXT COLLATE NOCASE, "nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT NULL, "nco:containsContact" INTEGER NOT NULL, "nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY, "nco:contactMediumComment" TEXT COLLATE NOCASE, "nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL, "ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL, "scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL, "ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY, "nco:emailAddress" TEXT COLLATE NOCASE UNIQUE, "nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE, "nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER, "nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL, "nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER, "nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER, "nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph" INTEGER);
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<td>ID INTEGER NOT NULL PRIMARY KEY</td>
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<td>nco:Role</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:video&quot; INTEGER, &quot;nco:video:graph&quot; INTEGER</td>
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<td>nco:Role_nco:blogUrl</td>
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<td>nco:Role_nco:foafUrl</td>
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<td>nco:Role_nco:hasEmailAddress</td>
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<td>nco:Role_nco:hasPostalAddress</td>
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CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
  "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
  "nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
  "nfo:lifeChannels" INTEGER, "nfo:lifeChannels:graph" INTEGER,
  "nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
  "nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
  "nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
  "nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
  "nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph" INTEGER,
  "nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
  "nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
  "nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
  "nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
  "nfo:characterPosition" INTEGER, "nfo:characterPosition:graph" INTEGER,
  "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
  "nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
  "nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL,
  "nfo:containsBookmark" INTEGER NOT NULL,
  "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL,
  "nfo:containsBookmarkFolder" INTEGER NOT NULL,
  "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:originalLocation" TEXT COLLATE NOCASE,
  "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
  "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER,
  "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:tableOfContents" TEXT COLLATE NOCASE,
  "nfo:tableOfContents:graph" INTEGER);
`````
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL, "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL, "nfo:hasRegionOfInterest" INTEGER NOT NULL, "nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count" INTEGER, "nfo:count:graph" INTEGER, "nfo:duration" INTEGER,
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER,
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
  "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER,
  "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
  "nfo:softwareCmdLine" TEXT COLLATE NOCASE,
  "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph" INTEGER,
  "nfo:programmingLanguage" TEXT COLLATE NOCASE,
  "nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT COLLATE NOCASE,
  "nfo:definesClass:graph" INTEGER,
  "nfo:definesFunction" TEXT COLLATE NOCASE,
  "nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT COLLATE NOCASE,
  "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
  "nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
  "nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount" INTEGER,
  "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate" REAL,
  "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
  "nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
  "nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime" INTEGER,
  "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
  "nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
  "nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
  "nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
  "nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph" INTEGER,
  "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER, "nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL, "nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL, "nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL, "nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
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<tr>
<td>ncie:logicalPart:graph</td>
<td>INTEGER</td>
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<tr>
<td>ncie:logicalPart:localDate</td>
<td>INTEGER</td>
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<tr>
<td>ncie:logicalPart:localTime</td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>ncie:logicalPart:graph</td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>ncie:keyword:keyword</td>
<td>TEXT</td>
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</tr>
<tr>
<td>ncie:relatedTo:relatedTo:graph</td>
<td>INTEGER</td>
<td></td>
</tr>
</tbody>
</table>

CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER, "nie:informationElementDate:localDate" INTEGER NOT NULL, "nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:logicalPart" (ID INTEGER NOT NULL, "nie:logicalPart" INTEGER NOT NULL, "nie:logicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER,
  "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:DigitalRadio" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:streamingBitrate" INTEGER, "nmm:streamingBitrate:graph" INTEGER,
  "nmm:encoding" TEXT COLLATE NOCASE, "nmm:encoding:graph" INTEGER,
  "nmm:protocol" TEXT COLLATE NOCASE, "nmm:protocol:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY,
  "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
  "nmm:albumTrackCount" INTEGER, "nmm:albumTrackCount:graph" INTEGER,
  "nmm:albumTitle" TEXT COLLATE NOCASE, "nmm:albumTitle:graph" INTEGER,
  "nmm:albumDuration" INTEGER, "nmm:albumDuration:graph" INTEGER,
  "nmm:albumGain" INTEGER, "nmm:albumGain:graph" INTEGER,
  "nmm:albumPeakGain" INTEGER, "nmm:albumPeakGain:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER,
  "nmm:musicCDIdentifier" TEXT COLLATE NOCASE,
  "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER,
  "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL,
  "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece" (ID INTEGER NOT NULL PRIMARY KEY,
  "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
  "nmm:musicAlbum" INTEGER, "nmm:musicAlbum:graph" INTEGER,
  "nmm:musicAlbumDisc" INTEGER, "nmm:musicAlbumDisc:graph" INTEGER,
  "nmm:beatsPerMinute" INTEGER, "nmm:beatsPerMinute:graph" INTEGER,
  "nmm:performer" INTEGER, "nmm:performer:graph" INTEGER, "nmm:composer"
  INTEGER, "nmm:composer:graph" INTEGER, "nmm:lyricist" INTEGER,
  "nmm:lyricist:graph" INTEGER, "nmm:trackNumber" INTEGER,
  "nmm:trackNumber:graph" INTEGER,
  "nmm:internationalStandardRecordingCode" TEXT COLLATE NOCASE,
  "nmm:internationalStandardRecordingCode:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL,
  "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash"
  INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
  "nmm:fnumber:graph" INTEGER, "nmm:focalLength" REAL,
  "nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
  "nmm:isoSpeed:graph" INTEGER, "nmm:meteringMode" INTEGER,
  "nmm:meteringMode:graph" INTEGER, "nmm:whiteBalance" INTEGER,
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER, "nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER, "nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER, "nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER, "nmo:htmlMessageContent" TEXT COLLATE NOCASE, "nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER, "nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER, "nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime" INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER, "nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation" INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel" INTEGER);
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CREATE TABLE "nmo:validityPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:validityPeriod" INTEGER, "nmo:validityPeriod:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:phoneMessageFolderId" TEXT COLLATE NOCASE,
"nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID
INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL,
"nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder"
(ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT
NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL,
"nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range"
INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed"
INTEGER, "tracker:fulltextIndexed:graph" INTEGER,
"tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph"
INTEGER, "tracker:transient" INTEGER, "tracker:transient:graph"
INTEGER, "tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
"tracker:defaultValue" TEXT COLLATE NOCASE,
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER,
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER,
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER,
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdfs:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL,
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph"
INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL,
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL,
"tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph"
INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY,
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE,
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE,
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER,
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"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE,
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,
"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE,
"dc:format:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE,
"dc:identifier:graph" INTEGER, "dc:language" TEXT COLLATE NOCASE,
"dc:language:graph" INTEGER, "dc:coverage" TEXT COLLATE NOCASE,
"dc:coverage:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE,
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
INTEGER, "nao:lastModified:localTime" INTEGER);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
"dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date"
INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER
NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation"
TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source"
INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL,
"nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag"
INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated"
INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type"
INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER)
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE,
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER,
"tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER,
"tracker:isRemovable" INTEGER, "tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mlo:FeedMessage_mlo:enclosureList_ID_ID" ON
"mlo:FeedMessage_mlo:enclosureList" (ID, "mlo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBoxBox_ID_ID" ON
"mlo:GeoLocation_mlo:asBoundingBoxBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON
"mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON
"mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON
"mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON
"mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON
"mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON
"mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON
"mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON
"mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON
"mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON
"mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:belongsToGroup_ID_ID" ON
"nco:Contact_ncal:belongsToGroup" (ID, "ncal:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_ncal:note_ID_ID" ON
"nco:Contact_ncal:note" (ID, "ncal:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON
"nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON
"nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON
"nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON
"nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON
"nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact"
("nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber"
("phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON
"nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON
"nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON
"nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON
"nco:Role_nco:hasEmailAddress" (ID);
CREATE INDEX "nfo:containsBookmark";
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:hasMediaFileListEntry";
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON "nie:DataObject" (ID, "nie:isPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement" (ID, "mlo:location");
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");  
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON 
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");  
CREATE INDEX "nie:InformationElement_slo:location" ON 
"nie:InformationElement" ("slo:location");  
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");  
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");  
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON 
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");  
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");  
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON 
"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");  
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece" 
("nmm:musicAlbum");  
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece" 
("nmm:performer");  
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON 
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");  
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON 
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");  
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON 
"nmm:Video_nmm:director" (ID, "nmm:director");  
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON 
"nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");  
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON 
"nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");  
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");  
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON 
"nmo:CommunicationChannel_nmo:hasParticipant" (ID);  
CREATE UNIQUE INDEX 
"nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON 
"nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", 
ID);  
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON 
"nmo:CommunicationChannel" ("nmo:lastMessageDate");  
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON 
"nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");  
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON 
"nmo:Message_nmo:bcc" (ID, "nmo:bcc");  
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc" 
(ID, "nmo:cc");  
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message" 
("nmo:communicationChannel", "nmo:receivedDate");  
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message" 
("nmo:conversation");  
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");  
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON 
"nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON "scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON "scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON "scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON "scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" ("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON "slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT strftime("%s", (SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")) FROM "nie:DataObject" WHERE ID = (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u"))")
') FROM (SELECT "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS "3_u" FROM "nco:PersonContact_nco:hasAffiliation2", "nco:Role_nco:hasIMAddress3" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" = "nco:Role_nco:hasIMAddress3"."ID")), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ?') COLLATE NOCASE||COALESCE((SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ?') COLLATE NOCASE||COALESCE((SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ?') COLLATE NOCASE), '
') FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS "4_u" FROM "nco:PersonContact_nco:hasAffiliation4", "nco:Role_nco:hasPhoneNumber5" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID")), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ?,') COLLATE NOCASE||COALESCE((SELECT "nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ?,') COLLATE NOCASE||COALESCE((SELECT "nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ?') COLLATE NOCASE), '
') FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress" AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation6", "nco:Role_nco:hasEmailAddress7" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."ID")), (SELECT GROUP_CONCAT("2_u"||COALESCE((SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT Uri FROM Resource WHERE ID = "nco:url"),',') FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE), '?') FROM (SELECT "nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"."ID" AND
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12"."ID")), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT
"nie:InformationElement_nao:hasProperty13"."nco:hasProperty" AS
"8_u", "nco:Property14"."nco:propertyName" AS "9_u",
"nco:Property14"."nco:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nco:Property" AS
"nco:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13", "nco:Property" =
"nco:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE)) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
} } {/.* Goto .*/}

finish_test

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

# 2010 July 16
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#******************************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
if capable !compound {
    finish_test
return
}

do_execsql_test e_select-1.0 {
CREATE TABLE t1(a, b);
INSERT INTO t1 VALUES('a', 'one');
INSERT INTO t1 VALUES('b', 'two');
INSERT INTO t1 VALUES('c', 'three');

CREATE TABLE t2(a, b);
INSERT INTO t2 VALUES('a', 'I');
INSERT INTO t2 VALUES('b', 'II');
INSERT INTO t2 VALUES('c', 'III');

CREATE TABLE t3(a, c);
INSERT INTO t3 VALUES('a', 1);
INSERT INTO t3 VALUES('b', 2);

CREATE TABLE t4(a, c);
INSERT INTO t4 VALUES('a', NULL);
INSERT INTO t4 VALUES('b', 2);
}

set t1_cross_t2 [list                
  a one   a I      a one   b II     
  a one   c III    b two   a I      
  b two   b II     b two   c III    
  c three a I      c three b II    
  c three c III                     
]

set t1_cross_t1 [list                  
  a one   a one      a one   b two    
  a one   c three    b two   a one    
  b two   b two      b two   c three  
  c three a one      c three b two   
  c three c three                     
]

# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",",
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be
# substituted.
#
# This test runs the SELECT three times - once with:
#
# * s/%JOIN%/,
# * s/%JOIN%/JOIN/
# * s/%JOIN%/INNER JOIN/
# * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
    foreach {tn2 joinop} [list 1 2 "CROSS JOIN" 3 "INNER JOIN"] {
        set S [string map [list %JOIN% $joinop] $select]
        uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
    }
}

#---------------------------------------------------------------
# The following tests check that all paths on the syntax diagrams on
# the lang_select.html page may be taken.
#
# # EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
#
# do_join_test e_select-0.1.1 {
#    SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
# } {3}
# do_join_test e_select-0.1.2 {
#    SELECT count(*) FROM t1 %JOIN% t2 USING (a)
# } {3}
# do_join_test e_select-0.1.3 {
#    SELECT count(*) FROM t1 %JOIN% t2
# } {9}
# do_catchsql_test e_select-0.1.4 {
#    SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
# } {1 {cannot have both ON and USING clauses in the same join}}
# do_catchsql_test e_select-0.1.5 {
#    SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
# } {1 {near "ON": syntax error}}

# # EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
# # 0: SELECT ...
# # 1: SELECT DISTINCT ...
# # 2: SELECT ALL ...
#
# # 0: No FROM clause
# # 1: Has FROM clause
# #
# # 0: No WHERE clause
# # 1: Has WHERE clause
# #
# # 0: No GROUP BY clause
# 1: Has GROUP BY clause
# 2: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {
  0000.1 "SELECT 1, 2, 3 " {1 2 3}
  1000.1 "SELECT DISTINCT 1, 2, 3 " {1 2 3}
  2000.1 "SELECT ALL 1, 2, 3 " {1 2 3}

  0100.1 "SELECT a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
  }
  1100.1 "SELECT DISTINCT a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
  }
  1200.1 "SELECT ALL a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
  }

  0010.1 "SELECT 1, 2, 3 WHERE 1 " {1 2 3}
  0010.2 "SELECT 1, 2, 3 WHERE 0 " {}
  0010.3 "SELECT 1, 2, 3 WHERE NULL " {}

  1010.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 " {1 2 3}
  2010.1 "SELECT ALL 1, 2, 3 WHERE 1 " {1 2 3}

  0110.1 "SELECT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
  }
  0110.2 "SELECT a, b, a||b FROM t1 WHERE a=='x' " {}

  1110.1 "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
  }
  2110.0 "SELECT ALL a, b, a||b FROM t1 WHERE a=='x' " {}

  0001.1 "SELECT 1, 2, 3 GROUP BY 2 " {1 2 3}
  0002.1 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
  0002.2 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

  1001.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 " {1 2 3}
  1002.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
  1002.2 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

  2001.1 "SELECT ALL 1, 2, 3 GROUP BY 2 " {1 2 3}
  2002.1 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
  2002.2 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}
0101.1 "SELECT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
0101.2 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}

0102.1 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

1101.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
1101.2 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}

1102.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

2101.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
2101.2 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}

2102.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

0011.1 "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
0011.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" { }
0012.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" { }

1011.1 "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" { }
1011.2 "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1" {1 2 3}

1012.1 "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" { }

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2011.2 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" { }
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" { }

0111.1 "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a}
0112.1 "SELECT count(*), max(a) FROM t1 WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c}
0112.2 "SELECT count(*), max(a) FROM t1 WHERE 0 GROUP BY b HAVING count(*)=2" { }

1111.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a='c' GROUP BY b" {1 a 1 b}
1112.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
GROUP BY b HAVING count(*)=1" {1 c 1 b}
2112.2 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0 GROUP BY b HAVING count(*)=2" {
}

2111.1 "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b"  
   {1 c 1 b}
2112.1 "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b' GROUP BY b HAVING count(*)=1"  
   {1 a 1 c }
2112.2 "SELECT ALL count(*), max(a) FROM t1 WHERE 0 GROUP BY b HAVING count(*)=2"  
   {
}

# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
#
do_select_tests e_select-0.3 {
  1  "SELECT * FROM t1" {a one b two c three}
  2  "SELECT t1.* FROM t1" {a one b two c three}
  3  "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
  4  "SELECT 'x'||a||'x' alias FROM t1" {xax xbx xcx}
  5  "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
# EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
#
do_select_tests e_select-0.4 {
  1  "SELECT t1.rowid FROM t1" {1 2 3}
  2  "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
  3  "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3}
  4  "SELECT t1.rowid FROM t1" {1 2 3}
  5  "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}
  6  "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"  
      {1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 3}
  7  "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
  8  "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
  9  "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
 10  "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
 11  "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}
 12  "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
 13  "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 3 3}
15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 3 3}
16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 3 3}
}

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
#
# do_select_tests e_select-0.5 {
1  "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
2  "SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4" {1 2 3 4}
3  "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
4  "SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4" {1 2}
}

# EVIDENCE-OF: R-06480-34950 -- syntax diagram ordering-term
#
# do_select_tests e_select-0.6 {
1  "SELECT b||a FROM t1 ORDER BY b||a"                  {onea threec twob}
2  "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob}
3  "SELECT b||a FROM t1 ORDER BY (b||a) ASC"            {onea threec twob}
4  "SELECT b||a FROM t1 ORDER BY (b||a) DESC"           {twob threec onea}
}

# EVIDENCE-OF: R-23926-36668 -- syntax diagram select-stmt
#
# do_select_tests e_select-0.7 {
1  "SELECT * FROM t1" {a one b two c three}
2  "SELECT * FROM t1 ORDER BY b" {a one c three b two}
3  "SELECT * FROM t1 ORDER BY b, a" {a one c three b two}
4  "SELECT * FROM t1 LIMIT 10" {a one b two c three}
5  "SELECT * FROM t1 LIMIT 10 OFFSET 5" {}
6  "SELECT * FROM t1 LIMIT 10, 5" {}
7  "SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three}
8  "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {}
9  "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}
10 "SELECT * FROM t1 UNION SELECT b, a FROM t1" {a one b two c three one a three c two b}
11 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b" {one a two b three c a one c three b two}
12 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a" {one a two b three c a one c three b two}
13 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10" {a one b two c three one a three c two b}
14 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5" {two b}
15 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"
   {} 
16 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10"
   {a one b two c three a three c two b} 
17 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5"
   {b two} 
18 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5"
   {} } 

#---------------------------------------------------------------
# The following tests focus on FROM clause (join) processing.
# 
# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide
# 
do_select_tests e_select-1.1 
   1 "SELECT ’abc’"            {abc} 
   2 "SELECT ’abc’ WHERE NULL” {} 
   3 "SELECT NULL”             {{}} 
   4 "SELECT count(*)”        {1} 
   5 "SELECT count(*) WHERE 0” {0} 
   6 "SELECT count(*) WHERE 1” {1} 
} 

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
# 
# The results of the SELECT queries suggest that they are operating on the
# contents of the table ‘xx’.
# 
do_execsql_test e_select-1.2.0 
    CREATE TABLE xx(x, y);
    INSERT INTO xx VALUES(’IiJlsIPepMuAhU’, X’10B00B897A15BAA02E3F98DCE8F2’);
    INSERT INTO xx VALUES(NULL, -16.87);
    INSERT INTO xx VALUES(-17.89, ’linguistically’);
} {} 
do_select_tests e_select-1.2 
   1 "SELECT quote(x), quote(y) FROM xx" 
      ’IiJlsIPepMuAhU’ X’10B00B897A15BAA02E3F98DCE8F2’
      NULL -16.87
      -17.89 ’linguistically’
   } 
   2 "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
"SELECT sum(x), sum(y) FROM xx"  

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
#
# do_select_tests e_select-1.3 {
  "SELECT * FROM t1, t2, t3" {
    one a I a 1 a one a I a 1 a one b II a 1
    one a II b 2 a one c III a 1 a one c III b 2
    two a I a 1 b two a I b 2 b two b II a 1
    two b II b 2 b two c III a 1 b two c III b 2
    three a I a 1 c three a I b 2 c three b II a 1
    three b II b 2 c three c III a 1 c three c III b 2
  }
}

# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (",") and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or "," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and "," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and "," operators
#
# All tests are run 4 times, with the only difference in each run being
# which of the 4 equivalent cartesian product join operators are used.
# Since the output data is the same in all cases, we consider that this
# qualifies as testing the two statements above.
# do_execsql_test e_select-1.4.0 {
CREATE TABLE x1(a, b);
CREATE TABLE x2(c, d, e);
CREATE TABLE x3(f, g, h, i);

-- x1: 3 rows, 2 columns
INSERT INTO x1 VALUES(24, 'converging');
INSERT INTO x1 VALUES(NULL, X'CB71');
INSERT INTO x1 VALUES('blonds', 'proprietary');

-- x2: 2 rows, 3 columns
INSERT INTO x2 VALUES(-60.06, NULL, NULL);
INSERT INTO x2 VALUES(-58, NULL, 1.21);

-- x3: 5 rows, 4 columns
INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
}

# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product dataset are, in order, all the columns of the left-hand dataset followed by all the columns of the right-hand dataset.

# do_join_test e_select-1.4.1.1 {
SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} {-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat {-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat {-39.24 {} encompass -1} {-60.06 {} {}}]

do_join_test e_select-1.4.1.4 {
SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat {-60.06 {} {}} {-39.24 {} encompass -1}]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product dataset formed by combining each unique combination of a row from the left-hand and right-hand datasets.

# do_join_test e_select-1.4.2.1 {
SELECT * FROM x2 %JOIN% x3

<table>
<thead>
<tr>
<th>x1, x2</th>
<th>(Nlhs=3, Nrhs=2)</th>
<th>(Mlhs=2, Mrhs=3)</th>
</tr>
</thead>
</table>
| do_join_test e_select-1.4.3.1 { 
| \ SELECT count(*) FROM x1 %JOIN% x2 
| } [expr 3*2] 
| do_test e_select-1.4.3.2 { 
| expr \[[ilength [execsql {SELECT * FROM x1, x2}]] / 6\] 
| } [expr 2+3] 

<table>
<thead>
<tr>
<th>x2, x3</th>
<th>(Nlhs=2, Nrhs=5)</th>
<th>(Mlhs=3, Mrhs=4)</th>
</tr>
</thead>
</table>
| do_join_test e_select-1.4.3.3 { 
| \ SELECT count(*) FROM x2 %JOIN% x3 
| } [expr 2*5] 
| do_test e_select-1.4.3.4 { 
| expr \[[ilength [execsql {SELECT * FROM x2 JOIN x3}]] / 10\] 
| } [expr 3+4] 

<table>
<thead>
<tr>
<th>x3, x1</th>
<th>(Nlhs=5, Nrhs=3)</th>
<th>(Mlhs=4, Mrhs=2)</th>
</tr>
</thead>
</table>
| do_join_test e_select-1.4.3.5 { 
| \ SELECT count(*) FROM x3 %JOIN% x1 
| } [expr 5*3] 
| do_test e_select-1.4.3.6 { 
| expr \[[ilength [execsql {SELECT * FROM x3 CROSS JOIN x1}]] / 15\] 
| } [expr 4+2] 

<table>
<thead>
<tr>
<th>x3, x3</th>
<th>(Nlhs=5, Nrhs=5)</th>
<th>(Mlhs=4, Mrhs=4)</th>
</tr>
</thead>
</table>
| do_join_test e_select-1.4.3.7 { 
| \ SELECT count(*) FROM x3 %JOIN% x3 
| } [expr 5*5] 
| do_test e_select-1.4.3.8 { 

# TODO: Come back and add a few more like the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of
# Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.

# x1, x2 | (Nlhs=3, Nrhs=2) | (Mlhs=2, Mrhs=3) 
# do_join_test e_select-1.4.3.1 { 
# \ SELECT count(*) FROM x1 %JOIN% x2 
# } [expr 3*2] 
# do_test e_select-1.4.3.2 { 
# expr \[[ilength [execsql {SELECT * FROM x1, x2}]] / 6\] 
# } [expr 2+3] 

# x2, x3 | (Nlhs=2, Nrhs=5) | (Mlhs=3, Mrhs=4) 
# do_join_test e_select-1.4.3.3 { 
# \ SELECT count(*) FROM x2 %JOIN% x3 
# } [expr 2*5] 
# do_test e_select-1.4.3.4 { 
# expr \[[ilength [execsql {SELECT * FROM x2 JOIN x3}]] / 10\] 
# } [expr 3+4] 

# x3, x1 | (Nlhs=5, Nrhs=3) | (Mlhs=4, Mrhs=2) 
# do_join_test e_select-1.4.3.5 { 
# \ SELECT count(*) FROM x3 %JOIN% x1 
# } [expr 5*3] 
# do_test e_select-1.4.3.6 { 
# expr \[[ilength [execsql {SELECT * FROM x3 CROSS JOIN x1}]] / 15\] 
# } [expr 4+2] 

# x3, x3 | (Nlhs=5, Nrhs=5) | (Mlhs=4, Mrhs=4) 
# do_join_test e_select-1.4.3.7 { 
# \ SELECT count(*) FROM x3 %JOIN% x3 
# } [expr 5*5] 
# do_test e_select-1.4.3.8 { 

---

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expr ([length [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]] / 25)
  [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y } $t1_cross_t1

do_select_tests e_select-1.4.5 [list
  1 { SELECT * FROM t1 CROSS JOIN t2 } $t1_cross_t2
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t2
  3 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t2
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1
]

# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which the expression evaluates
# to false are excluded from the dataset.
#
foreach {tn select res} [list
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) } $t1_cross_t2
  2 { SELECT * FROM t1 %JOIN% t2 ON (0) } [list]
  3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) } [list]
  4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') } [list]
  5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') } $t1_cross_t2
  6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } [list]
  7 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } [list]
  8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) } [list]
  9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) }
     {one I two II three III}
 10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') }
     {one I one II one III}
 11 { SELECT t1.b, t2.b
       FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) }
     {two I two II two III three I three II three III}
]
do_join_test e_select-1.3.$tn $select $res
}

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as
# part of the join-constraint, then each of the column names specified
# must exist in the datasets to both the left and right of the join-op.
#
do_select_tests e_select-1.4 -error {
cannot join using column %s - column not present in both tables
For each pair of namesake columns, the expression "lhs.X = rhs.X" is evaluated for each row of the cartesian product as a boolean expression. All rows for which one or more of the expressions evaluates to false are excluded from the result set.

When comparing values as a result of a USING clause, the normal rules for handling affinities, collation sequences and NULL values in comparisons apply.

The column from the dataset on the left-hand side of the join operator is considered to be on the left-hand side of the comparison operator (=) for the purposes of collation sequence and affinity precedence.

For each pair of columns identified by a USING clause, the column from the right-hand dataset is omitted from...
# the joined dataset.
#
# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING
# clause and its equivalent ON constraint.
#
foreach {tn select res} {
  1a { SELECT * FROM t1 %JOIN% t2 USING (a) }
  {a one I b two II c three III}
  1b { SELECT * FROM t1 %JOIN% t2 ON (t1.a=t2.a) }
  {a one a I b two b II c three c III}

2a { SELECT * FROM t3 %JOIN% t4 USING (a) } {a 1 b 2 2}
2b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a) }
{a 1 a } b 2 b 2

3a { SELECT * FROM t3 %JOIN% t4 USING (a,c) } {b 2}
3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) } {b 2 b 2}

4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
     %JOIN% t5 USING (a) } {aa cc cc bb DD dd}
4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
     %JOIN% t5 ON (x.a=t5.a) } {aa cc AA cc bb DD BB dd}
}
{do_join_test e_select-1.7.$tn $select $res
 }

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT
# OUTER JOIN", then after the ON or USING filtering clauses have been
# applied, an extra row is added to the output for each row in the
# original left-hand input dataset that corresponds to no rows at all in
# the composite dataset (if any).
#
do_execsql_test e_select-1.8.0 {
  CREATE TABLE t7(a, b, c);
  CREATE TABLE t8(a, d, e);

  INSERT INTO t7 VALUES('x', 'ex',  24);
  INSERT INTO t7 VALUES('y', 'why', 25);

  INSERT INTO t8 VALUES('x', 'abc', 24);
  INSERT INTO t8 VALUES('z', 'ghi', 26);
}
{ }

do_select_tests e_select-1.8 {
  1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}  
2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}  
2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2} 

# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the  
# columns that would normally contain values copied from the right-hand  
# input dataset.  
#
do_select_tests e_select-1.9 {  
1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}  
1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"  
   {x ex 24 x abc 24 y why 25 {} {} {}}  
2a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}  
2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {}} 
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of  
# the join-ops, then an implicit USING clause is added to the  
# join-constraints. The implicit USING clause contains each of the  
# column names that appear in both the left and right-hand input  
# datasets.  
#
do_select_tests e_select-1-10 {  
1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}  
1b "SELECT * FROM t8 NATURAL JOIN t7" {x ex 24 abc 24}  
2a "SELECT * FROM t8 JOIN t7 USING (a)" {x abc 24 ex 24}  
2b "SELECT * FROM t8 NATURAL JOIN t7" {x abc 24 ex 24} 
3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {} {}}  
3b "SELECT * FROM t7 NATURAL LEFT JOIN t8" {x ex 24 abc 24 y why 25 {} {}} 
4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)" {x abc 24 ex 24 z ghi 26 {} {}}  
4b "SELECT * FROM t8 NATURAL LEFT JOIN t7" {x abc 24 ex 24 z ghi 26 {} {}} 
5a "SELECT * FROM t3 JOIN t4 USING (a,c)" {b 2}  
5b "SELECT * FROM t3 NATURAL JOIN t4" {b 2} 
6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a 1 b 2}  
6b "SELECT * FROM t3 NATURAL LEFT JOIN t4" {a 1 b 2} 
}

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets  
# feature no common column names, then the NATURAL keyword has no effect  
# on the results of the join.  
#
do_execsql_test e_select-1.11.0 {
  CREATE TABLE t10(x, y);
  INSERT INTO t10 VALUES(1, 'true');
  INSERT INTO t10 VALUES(0, 'false');
} {}

do_select_tests e_select-1-11 {
  1a "SELECT a, x FROM t1 CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
  1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
}

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a
# join that specifies the NATURAL keyword.
#
foreach {tn sql} {
  1 {SELECT * FROM t1 NATURAL LEFT JOIN t2 USING (a)}
  2 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (t1.a=t2.a)}
  3 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (45)}
} {
  do_catchsql_test e_select-1.12.$tn "$sql"
  " 1 {a NATURAL join may not have an ON or USING clause}"
}

#---------------------------------------------------------------
# The next block of tests - e_select-3.* - concentrate on verifying
# statements made regarding WHERE clause processing.
#
drop_all_tables
do_execsql_test e_select-3.0 {
  CREATE TABLE x1(k, x, y, z);
  INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);
  INSERT INTO x1 VALUES(2, X'A8E8D66F',    X'07CF',   -81);
  INSERT INTO x1 VALUES(3, -22,            -27.57,    NULL);
  INSERT INTO x1 VALUES(4, NULL,           'bygone',  'picky');
  INSERT INTO x1 VALUES(5, NULL,           96.28,     NULL);
  INSERT INTO x1 VALUES(6, 0,              1,         2);

  CREATE TABLE x2(k, x, y2);
  INSERT INTO x2 VALUES(1, 50, X'B82838');
  INSERT INTO x2 VALUES(5, 84.79, 65.88);
  INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
  INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
} {}

# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression. All rows for which the WHERE clause expression evaluates
# to false are excluded from the dataset before continuing.
#
do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x } {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y } {3 5 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z } {1 2 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1' || z } {1 2 4 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2 4 6}

do_execsql_test e_select-3.2.1a {
    SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b {
    SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1 3 5}
do_execsql_test e_select-3.2.2 {
    SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
} {2 4 6}
do_execsql_test e_select-3.2.3 {
    SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
    SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k - 3
} {}

#----------------------------------------------------------
# Tests below this point are focused on verifying the testable statements
# related to calculating the result rows of a simple SELECT statement.
#

drop_all_tables
do_execsql_test e_select-4.0 {
    CREATE TABLE z1(a, b, c);
    CREATE TABLE z2(d, e);
    CREATE TABLE z3(a, b);

    INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
    INSERT INTO z1 VALUES(-5, NULL, 75);
    INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
    INSERT INTO z1 VALUES(NULL, 67, 'quartets');
    INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
    INSERT INTO z1 VALUES(63, 'born', -26);

    INSERT INTO z2 VALUES(NULL, 21);
    INSERT INTO z2 VALUES(36, 6);

    INSERT INTO z3 VALUES('subsistence', 'gauze');
    INSERT INTO z3 VALUES(49.17, -67);
# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
   1  "SELECT * FROM z1 LIMIT 1" {51.65 -59.58 belfries}
   2  "SELECT * FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries {} 21}
   3  "SELECT z1.* FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries}
   4  "SELECT z2.*, FROM z1,z2 LIMIT 1" {} 21
   5  "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {} 21 51.65 -59.58 belfries

   6  "SELECT count(*), FROM z1" [6 63 born -26]
   7  "SELECT max(a), FROM z1" [63 63 born -26]
   8  "SELECT *,min(a) FROM z1" [-5 {} 75 -5]

   9  "SELECT *,* FROM z1,z2 LIMIT 1" {
      51.65 -59.58 belfries {} 21 51.65 -59.58 belfries {} 21
   }
   10 "SELECT z1.*,z1.* FROM z2,z1 LIMIT 1" {
      51.65 -59.58 belfries 51.65 -59.58 belfries
   }
}

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*"
# expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or
# "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
   1.1 "SELECT a, b, c FROM z1 WHERE *" {near ":" syntax error}
   1.2 "SELECT a, b, c FROM z1 GROUP BY *" {near ":" syntax error}
   1.3 "SELECT 1 + * FROM z1" {near ":" syntax error}
   1.4 "SELECT * + 1 FROM z1" {near ":" syntax error}

   2.1 "SELECT *" {no tables specified}
   2.2 "SELECT * WHERE 1" {no tables specified}
   2.3 "SELECT * WHERE 0" {no tables specified}
   2.4 "SELECT count(*), *" {no tables specified}
}
do_catchsql_test e_select-4.2.$tn $select [list 1 $err]
foreach {tn select nCol} {
  1 "SELECT * FROM z1"  3
  2 "SELECT * FROM z1 NATURAL JOIN z3"  3
  3 "SELECT z1.* FROM z1 NATURAL JOIN z3"  3
  4 "SELECT z3.* FROM z1 NATURAL JOIN z3"  2
  5 "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"  5
  6 "SELECT 1, 2, z1.* FROM z1"  5
  7 "SELECT a, *, b, c FROM z1"  6
}
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol
sqlite3_finalize $::stmt

# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#
# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
  1 "SELECT a, b FROM z1"
      {51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born}
  2 "SELECT a IS NULL, b+1, * FROM z1" {
      0 -58.58 51.65 -59.58 belfries
# Test cases e_select-4.5.* and e_select-4.6.* together show that:
#
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created
# by evaluating the aggregate and non-aggregate expressions in the
# result-set forms the result of an aggregate query without a GROUP BY
# clause.
#
# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate
# query without a GROUP BY clause, then each aggregate expression in the
# result-set is evaluated once across the entire dataset.
#
# do_select_tests e_select-4.5 {
# 1 "SELECT count(a), max(a), count(b), max(b) FROM z1"      {5 63 5 born}
# 2 "SELECT count(*), max(1)"                                {1 1}
# 3 "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3"           {-43.06}
# 4 "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3"           {-38.06}
# 5 "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
#}
#
# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the
# result-set is evaluated once for an arbitrarily selected row of the
# dataset.
#
# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used
# for each non-aggregate expression.
#
# Note: The results of many of the queries in this block of tests are
# technically undefined, as the documentation does not specify which row
# SQLite will arbitrarily select to use for the evaluation of the
# non-aggregate expressions.
#
drop_all_tables
do_execsql_test e_select-4.6.0 {
  CREATE TABLE a1(one PRIMARY KEY, two);
  INSERT INTO a1 VALUES(1, 1);
INSERT INTO a1 VALUES(2, 3);
INSERT INTO a1 VALUES(3, 6);
INSERT INTO a1 VALUES(4, 10);

CREATE TABLE a2(one PRIMARY KEY, three);
INSERT INTO a2 VALUES(1, 1);
INSERT INTO a2 VALUES(3, 2);
INSERT INTO a2 VALUES(6, 3);
INSERT INTO a2 VALUES(10, 4);
}

do_select_tests e_select-4.6 {
1  "SELECT one, two, count(*) FROM a1"                        {4 10 4 }
2  "SELECT one, two, count(*) FROM a1 WHERE one<3"            {2 3 2 }
3  "SELECT one, two, count(*) FROM a1 WHERE one>3"            {4 10 1 }
4  "SELECT *, count(*) FROM a1 JOIN a2"                       {4 10 1 4 16}
5  "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
6  "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
7  "SELECT group_concat(three, "), a1.* FROM a1 NATURAL JOIN a2" {12 3 6}
}

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
1  "SELECT one, two, count(*) FROM a1 WHERE 0"           {{} {} 0}
2  "SELECT sum(two), * FROM a1, a2 WHERE three>5"        {{} {} {} {} {}}
3  "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" { 1 1 1 }
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {
  8.1  "SELECT count(*) FROM a1"
  8.2  "SELECT count(*) FROM a1 WHERE 0"
  8.3  "SELECT count(*) FROM a1 WHERE 1"
  8.4  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
  8.5  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"
} {
  # Set $nRow to the number of rows returned by $select:
  set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
  set nRow 0
  while {"SQLITE_ROW" == ::snd::stmt} { incr nRow }
  set rc [sqlite3_finalize ::stmt]
# Test that $nRow==1 and that statement execution was successful
# (rc==SQLITE_OK).
do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}

drop_all_tables
do_execsql_test e_select-4.9.0 {
    CREATE TABLE b1(one PRIMARY KEY, two);
    INSERT INTO b1 VALUES(1, 'o');
    INSERT INTO b1 VALUES(4, 't');
    INSERT INTO b1 VALUES(3, 't');
    INSERT INTO b1 VALUES(2, 't');
    INSERT INTO b1 VALUES(5, 'f');
    INSERT INTO b1 VALUES(7, 's');
    INSERT INTO b1 VALUES(6, 's');
    CREATE TABLE b2(x, y);
    INSERT INTO b2 VALUES(NULL, 0);
    INSERT INTO b2 VALUES(NULL, 1);
    INSERT INTO b2 VALUES('xyz', 2);
    INSERT INTO b2 VALUES('abc', 3);
    INSERT INTO b2 VALUES('xyz', 4);
    CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
    INSERT INTO b3 VALUES('abc', 'abc');
    INSERT INTO b3 VALUES('aBC', 'aBC');
    INSERT INTO b3 VALUES('Def', 'Def');
    INSERT INTO b3 VALUES('def', 'def');
} {} 

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate query with a GROUP BY clause, then each of the expressions specified as part of the GROUP BY clause is evaluated for each row of the dataset. Each row is then assigned to a "group" based on the results; rows for which the results of evaluating the GROUP BY expressions are the same are assigned to the same group.
#
# These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do not have to be expressions that appear in the result.
#
do_select_tests e_select-4.9 {
    1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
       /#,# f  1 o  #,# s #,# t/
    } 
    2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
       /#,# f  5 o  #,# s #,# t/
1,2,3,4 10  5,6,7 18
}
3 "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" { 
4  1,5  2,6  3,7 
}
4 "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" { 
4,3,5,7,6  1,2 
}

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL 
# values are considered equal.
#
do_select_tests e_select-4.10 { 
1  "SELECT group_concat(y) FROM b2 GROUP BY x" {/#,#  3   #,#/#} 
2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1} 
}

# EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation 
# sequence with which to compare text values apply when evaluating 
# expressions in a GROUP BY clause.
#
do_select_tests e_select-4.11 { 
1  "SELECT count(*) FROM b3 GROUP BY b" {1 1 1 1} 
2  "SELECT count(*) FROM b3 GROUP BY a" {2 2} 
3  "SELECT count(*) FROM b3 GROUP BY +b" {1 1 1 1} 
4  "SELECT count(*) FROM b3 GROUP BY +a" {2 2} 
5  "SELECT count(*) FROM b3 GROUP BY b||''" {1 1 1 1} 
6  "SELECT count(*) FROM b3 GROUP BY a||''" {1 1 1 1} 
}

# EVIDENCE-OF: R-63573-50730 The expressions in a GROUP BY clause may 
# not be aggregate expressions.
#
foreach {tn select} { 
12.1  "SELECT * FROM b3 GROUP BY count(*)" 
12.2  "SELECT max(a) FROM b3 GROUP BY max(b)"
12.3  "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
do_catchsql_test e_select-4.$tn $select $res
}

# EVIDENCE-OF: R-31537-00101 If a HAVING clause is specified, it is 
# evaluated once for each group of rows as a boolean expression. If the 
# result of evaluating the HAVING clause is false, the group is 
# discarded.
#
# This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate
# expression, it is evaluated across all rows in the group.
#
# Tested by e_select-4.13.1.*
#
# EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate
# expression, it is evaluated with respect to an arbitrarily selected
# row from the group.
#
# Tested by e_select-4.13.2.*
#
# Tests in this block also show that this is not untrue:
#
# EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values,
# even aggregate functions, that are not in the result.
#
do_execsql_test e_select-4.13.0 {
    CREATE TABLE c1(up, down);
    INSERT INTO c1 VALUES('x', 1);
    INSERT INTO c1 VALUES('x', 2);
    INSERT INTO c1 VALUES('x', 4);
    INSERT INTO c1 VALUES('x', 8);
    INSERT INTO c1 VALUES('y', 16);
    INSERT INTO c1 VALUES('y', 32);

    CREATE TABLE c2(i, j);
    INSERT INTO c2 VALUES(1, 0);
    INSERT INTO c2 VALUES(2, 1);
    INSERT INTO c2 VALUES(3, 3);
    INSERT INTO c2 VALUES(4, 6);
    INSERT INTO c2 VALUES(5, 10);
    INSERT INTO c2 VALUES(6, 15);
    INSERT INTO c2 VALUES(7, 21);
    INSERT INTO c2 VALUES(8, 28);
    INSERT INTO c2 VALUES(9, 36);

    CREATE TABLE c3(i PRIMARY KEY, k TEXT);
    INSERT INTO c3 VALUES(1, 'hydrogen');
    INSERT INTO c3 VALUES(2, 'helium');
    INSERT INTO c3 VALUES(3, 'lithium');
    INSERT INTO c3 VALUES(4, 'beryllium');
    INSERT INTO c3 VALUES(5, 'boron');
    INSERT INTO c3 VALUES(94, 'plutonium');
} {}

do_select_tests e_select-4.13 {

1.1 "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}
1.2 "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}
1.3 "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}
1.4 "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}

2.1 "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}
2.2 "SELECT up FROM c1 GROUP BY up HAVING up='y'"  {y}

2.3 "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" {9 36}

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then
# evaluated once for each group of rows.
#
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate
# expression, it is evaluated across all rows in the group.
#
do_select_tests e_select-4.15 {
  1 "SELECT sum(down) FROM c1 GROUP BY up" {15 48}
  2 "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)"  {54 36 27 21 39 28}
  3 "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)"  {80 36 40 21}
  4 "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" {81 37 41 22}
  5 "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"
    {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.
#
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
  1 "SELECT i, j FROM c2 GROUP BY i%2"             {8 28   9 36}
  2 "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}
  3 "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
  4 "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
  5 "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"
    {2 5 boron   2 2 helium   1 3 lithium}
}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.
#
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.
#
do_select_tests e_select.4.16 -count {
    1 "SELECT i, j FROM c2 GROUP BY i%2"  2
    2 "SELECT i, j FROM c2 GROUP BY i"         9
    3 "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

#-------------------------------------------------------------------------
# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
#
drop_all_tables
do_execsql_test e_select-5.1.0 {
    CREATE TABLE h1(a, b);
    INSERT INTO h1 VALUES(1, 'one');
    INSERT INTO h1 VALUES(1, 'I');
    INSERT INTO h1 VALUES(1, 'i');
    INSERT INTO h1 VALUES(4, 'four');
    INSERT INTO h1 VALUES(4, 'IV');
    INSERT INTO h1 VALUES(4, 'iv');
    INSERT INTO h1 VALUES(4, 'IV');
    INSERT INTO h1 VALUES(4, 'IV');
    
    CREATE TABLE h2(x COLLATE nocase);
    INSERT INTO h2 VALUES('One');
    INSERT INTO h2 VALUES('Two');
    INSERT INTO h2 VALUES('Three');
    INSERT INTO h2 VALUES('Four');
    INSERT INTO h2 VALUES('one');
    INSERT INTO h2 VALUES('two');
    INSERT INTO h2 VALUES('three');
    INSERT INTO h2 VALUES('four');
    
    CREATE TABLE h3(c, d);
    INSERT INTO h3 VALUES(1, NULL);
    INSERT INTO h3 VALUES(2, NULL);
    INSERT INTO h3 VALUES(3, NULL);
    INSERT INTO h3 VALUES(4, '2');
    INSERT INTO h3 VALUES(5, NULL);
    INSERT INTO h3 VALUES(6, '2,3');
    INSERT INTO h3 VALUES(7, NULL);
    INSERT INTO h3 VALUES(8, '2,4');
    INSERT INTO h3 VALUES(9, '3');
} {}
do_select_tests e_select-5.1 {
1   "SELECT ALL a FROM h1"   {1 1 1 4 4 4}
2   "SELECT DISTINCT a FROM h1" {1 4}
}

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
# then duplicate rows are removed from the set of result rows before it
# is returned.
#
# The three testable statements above are tested by e_select-5.2.*,
# 5.3.* and 5.4.* respectively.
#
do_select_tests e_select-5 {
3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}

3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
}

# EVIDENCE-OF: R-02054-15343 For the purposes of detecting duplicate
# rows, two NULL values are considered to be equal.
#
do_select_tests e_select-5.5 {
1   "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
}

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation
# sequence to compare text values with apply.
#
do_select_tests e_select-5.6 {
1   "SELECT DISTINCT b FROM h1" {one I i four IV iv}
2   "SELECT DISTINCT b COLLATE nocase FROM h1" {one I four IV}
3   "SELECT DISTINCT x FROM h2" {One Two Three Four}
4   "SELECT DISTINCT x COLLATE binary FROM h2" {One Two Three Four one two three four}
}
The following tests - e_select-7.* - test that statements made to do
with compound SELECT statements are correct.

# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
# SELECTs must return the same number of result columns.
#
# All the other tests in this section use compound SELECTs created
# using component SELECTs that do return the same number of columns.
# So the tests here just show that it is an error to attempt otherwise.
#
drop_all_tables

do_execsql_test e_select-7.1.0 {
  CREATE TABLE j1 (a, b, c);
  CREATE TABLE j2 (e, f);
  CREATE TABLE j3 (g);
} {}

do_select_tests e_select-7.1 -error {
  SELECTs to the left and right of %s do not have the same number of result columns
} {
  1  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"  {{UNION ALL}}
  2  "SELECT *  FROM j1  UNION ALL SELECT * FROM j3"  {{UNION ALL}}
  3  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"  {{UNION ALL}}
  4  "SELECT a, b FROM j1  UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
  5  "SELECT *  FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}
  6  "SELECT a, b FROM j1  UNION SELECT g FROM j3"        {UNION}
  7  "SELECT *  FROM j1  UNION SELECT * FROM j3"        {UNION}
  8  "SELECT a, b FROM j1  UNION SELECT g FROM j3"        {UNION}
  9  "SELECT a, b FROM j1  UNION SELECT * FROM j3,j2"     {UNION}
 10  "SELECT *  FROM j3,j2 UNION SELECT a, b FROM j1"     {UNION}
 11  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
 12  "SELECT *  FROM j1  INTERSECT SELECT * FROM j3"    {INTERSECT}
 13  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
 14  "SELECT a, b FROM j1  INTERSECT SELECT * FROM j3,j2" {INTERSECT}
 15  "SELECT *  FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}
 16  "SELECT a, b FROM j1  EXCEPT SELECT g FROM j3"       {EXCEPT}
 17  "SELECT *  FROM j1  EXCEPT SELECT * FROM j3"       {EXCEPT}
 18  "SELECT a, b FROM j1  EXCEPT SELECT g FROM j3"       {EXCEPT}
 19  "SELECT a, b FROM j1  EXCEPT SELECT * FROM j3,j2"    {EXCEPT}
 20  "SELECT *  FROM j3,j2 EXCEPT SELECT a, b FROM j1"    {EXCEPT}
}

# EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must
# be simple SELECT statements, they may not contain ORDER BY or LIMIT
# clauses.
#
foreach {tn select op1 op2} {
   1  "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"
      ORDER BY 1 UNION ALL
   2  "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"
      ORDER BY 1 UNION ALL
   3  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2"
      ORDER BY 1 UNION ALL
   4  "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"
      LIMIT UNION ALL
   5  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"
      LIMIT UNION ALL
   6  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"
      LIMIT UNION ALL
   7  "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
      ORDER BY 1 UNION
   8  "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
      ORDER BY 1 UNION
   9  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"
      ORDER BY 1 UNION
  10  "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
       LIMIT UNION
  11  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
       LIMIT UNION
  12  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
       LIMIT UNION
  13  "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
       ORDER BY 1 EXCEPT
  14  "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
       ORDER BY 1 EXCEPT
  15  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
       ORDER BY 1 EXCEPT
  16  "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
       LIMIT EXCEPT
  17  "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
       LIMIT EXCEPT
  18  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
       LIMIT EXCEPT
  19  "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
       ORDER BY 1 INTERSECT
  20  "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
       ORDER BY 1 INTERSECT
  21  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
       ORDER BY 1 INTERSECT
}
"SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3" LIMIT {INTERSECT}
"SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3" LIMIT {INTERSECT}
"SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3" LIMIT {INTERSECT}

set err "$op1 clause should come after $op2 not before"
do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
1  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
2  "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
3  "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
4  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
5  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
6  "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"
7  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
8  "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
9  "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
10  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
11  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
12  "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"
13  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
14  "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
15  "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
16  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
17  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
18  "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
19  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
20  "SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
21  "SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
22  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
23  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
24  "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
}
do_test e_select-7.3.$tn { catch {execsql $select} msg } 0

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL
# operator returns all the rows from the SELECT to the left of the UNION

---

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# ALL operator, and all the rows from the SELECT to the right of it.
#
drop_all_tables
do_execsql_test e_select-7.4.0 {
    CREATE TABLE q1(a TEXT, b INTEGER, c);
    CREATE TABLE q2(d NUMBER, e BLOB);
    CREATE TABLE q3(f REAL, g);

    INSERT INTO q1 VALUES(16, -87.66, NULL);
    INSERT INTO q1 VALUES('legible', 94, -42.47);
    INSERT INTO q1 VALUES('beauty', 36, NULL);

    INSERT INTO q2 VALUES('legible', 1);
    INSERT INTO q2 VALUES('beauty', 2);
    INSERT INTO q2 VALUES(-65.91, 4);
    INSERT INTO q2 VALUES('emanating', -16.56);

    INSERT INTO q3 VALUES('beauty', 2);
    INSERT INTO q3 VALUES('beauty', 2);
} {}
do_select_tests e_select-7.4 {
    1 {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
        {16 legible beauty legible beauty -65.91 emanating}

    2 {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
        {16 -87.66 {} x legible 1}

    3 {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
        {3 -16.56}

    4 {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
        {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
} {}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as
# UNION ALL, except that duplicate rows are removed from the final
# result set.
#
do_select_tests e_select-7.5 {
    1 {SELECT a FROM q1 UNION SELECT d FROM q2}
        {-65.91 16 beauty emanating legible}

    2 {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
        {16 -87.66 {} x legible 1}

    3 {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}
        {-16.56 3}
{SELECT * FROM q2 UNION SELECT * FROM q3}
{-65.91 4 beauty 2 emanating -16.56 legible 1}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the
# intersection of the results of the left and right SELECTs.
#
do_select_tests e_select-7.6 {
  1  {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
  2  {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of
# rows returned by the left SELECT that are not also returned by the
# right-hand SELECT.
#
do_select_tests e_select-7.7 {
  1  {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}
  2  {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
      {-65.91 4 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results
# of INTERSECT and EXCEPT operators before the result set is returned.
#
do_select_tests e_select-7.8 {
  0  {SELECT * FROM q3} {beauty 2 beauty 2}
  1  {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
  2  {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1} {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate
# rows for the results of compound SELECT operators, NULL values are
# considered equal to other NULL values and distinct from all non-NULL
# values.
#
db nullvalue null
do_select_tests e_select-7.9 {
  1  {SELECT NULL UNION ALL SELECT NULL} {null null}
  2  {SELECT NULL UNION SELECT NULL} {null}
  3  {SELECT NULL INTERSECT SELECT NULL} {null}
  4  {SELECT NULL EXCEPT SELECT NULL} {}
  5  {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
  6  {SELECT NULL UNION SELECT 'ab'} {null ab}
  7  {SELECT NULL INTERSECT SELECT 'ab'} {}

8 \{SELECT NULL EXCEPT SELECT 'ab'} {null}

9 \{SELECT NULL UNION ALL SELECT 0\} {null 0}
10 \{SELECT NULL UNION SELECT 0\} {null 0}
11 \{SELECT NULL INTERSECT SELECT 0\} {}
12 \{SELECT NULL EXCEPT SELECT 0\} {null}

13 \{SELECT c FROM q1 UNION ALL SELECT g FROM q3\} {null -42.47 null 2 2}
14 \{SELECT c FROM q1 UNION SELECT g FROM q3\} {null -42.47 2}
15 \{SELECT c FROM q1 INTERSECT SELECT g FROM q3\} {}
16 \{SELECT c FROM q1 EXCEPT SELECT g FROM q3\} {null -42.47}{}

db nullvalue {}

# EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
text values is determined as if the columns of the left and right-hand
SELECT statements were the left and right-hand operands of the equals
# (=) operator, except that greater precedence is not assigned to a
collation sequence specified with the postfix COLLATE operator.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
    CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
    INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {}
do_select_tests e_select-7.10 {
    1 \{SELECT 'abc' UNION SELECT 'ABC'} {ABC abc}
    2 \{SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
    3 \{SELECT 'abc' UNION SELECT 'ABC' COLLATE nocase\} {ABC}
    4 \{SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase\} {ABC abc}
    5 \{SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary\} {ABC}

    6 \{SELECT a FROM y1 UNION SELECT b FROM y1\} {abc}
    7 \{SELECT b FROM y1 UNION SELECT a FROM y1\} {Abc abc}
    8 \{SELECT a FROM y1 UNION SELECT c FROM y1\} {aBC}

    9 \{SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1\} {aBC}
}

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to
# any values when comparing rows as part of a compound SELECT.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
    CREATE TABLE w1(a TEXT, b NUMBER);
    CREATE TABLE w2(a, b TEXT);

    INSERT INTO w1 VALUES('1', 4.1);
INSERT INTO w2 VALUES(1, 4.1);
} {}

do_select_tests e_select-7.11 {
   1 { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
   2 { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
   3 { SELECT b FROM w1 UNION SELECT b FROM w2 } {4.1 4.1}
   4 { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}
   5 { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
   6 { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
   7 { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
   8 { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}
   9 { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
  10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
  11 { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } {4.1}
  12 { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } {4.1}
}

# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
#   e_select-7.12.1: Precedence of UNION vs. INTERSECT
#   e_select-7.12.2: Precedence of UNION vs. UNION ALL
#   e_select-7.12.3: Precedence of UNION vs. EXCEPT
#   e_select-7.12.4: Precedence of INTERSECT vs. UNION ALL
#   e_select-7.12.5: Precedence of INTERSECT vs. EXCEPT
#   e_select-7.12.6: Precedence of UNION ALL vs. EXCEPT
#   e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
#                    "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
#
drop_all_tables

do_execsql_test e_select-7.12.0 {
CREATE TABLE t1(x);
INSERT INTO t1 VALUES(1);
INSERT INTO t1 VALUES(2);
INSERT INTO t1 VALUES(3);
} {}
foreach {tn select res} {
  1a "(1,2) INTERSECT (1) UNION (3)" {1 3}
  1b "(3) UNION (1,2) INTERSECT (1)" {1}
2a "(1,2) UNION (3) UNION ALL (1)" {1 2 3 1}
2b "(1) UNION ALL (3) UNION (1,2)" {1 2 3}

3a "(1,2) UNION (3) EXCEPT (1)" {2 3}
3b "(1,2) EXCEPT (3) UNION (1)" {1 2}

4a "(1,2) INTERSECT (1) UNION ALL (3)" {1 3}
4b "(3) UNION (1,2) INTERSECT (1)" {1}

5a "(1,2) INTERSECT (2) EXCEPT (2)" {}
5b "(2,3) EXCEPT (2) INTERSECT (2)" {}

6a "(2) UNION ALL (2) EXCEPT (2)" {}
6b "(2) EXCEPT (2) UNION ALL (2)" {2}

7 "(2,3) EXCEPT (2) EXCEPT (3)" {}
}
set select [string map {[ {SELECT x FROM t1 WHERE x IN()} $select]}
do_execsql_test e_select-7.12.$tn $select [list {*}$res]
}

#-----------------------------------------------
# ORDER BY clauses
#

drop_all_tables
do_execsql_test e_select-8.1.0 {
CREATE TABLE d1(x, y, z);
    INSERT INTO d1 VALUES(1, 2, 3);
    INSERT INTO d1 VALUES(2, 5, -1);
    INSERT INTO d1 VALUES(1, 2, 8);
    INSERT INTO d1 VALUES(1, 2, 7);
    INSERT INTO d1 VALUES(2, 4, 93);
    INSERT INTO d1 VALUES(1, 2, -20);
    INSERT INTO d1 VALUES(1, 4, 93);
    INSERT INTO d1 VALUES(1, 5, -1);

CREATE TABLE d2(a, b);
    INSERT INTO d2 VALUES('gently', 'failings');
    INSERT INTO d2 VALUES('commercials', 'bathrobe');
    INSERT INTO d2 VALUES('iterate', 'sexton');
    INSERT INTO d2 VALUES('babied', 'charitableness');
    INSERT INTO d2 VALUES('solemnness', 'annexed');
    INSERT INTO d2 VALUES('rejoicing', 'liabilities');
    INSERT INTO d2 VALUES('pragmatist', 'guarded');
INSERT INTO d2 VALUES('barked', 'interrupted');
INSERT INTO d2 VALUES('reemphasizes', 'reply');
INSERT INTO d2 VALUES('lad', 'relenting');
}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results
# of evaluating the left-most expression in the ORDER BY list, then ties
# are broken by evaluating the second left-most expression and so on.
#
do_select_tests e_select-8.1 {
  1  "SELECT * FROM d1 ORDER BY x, y, z" {
      12 -20  1 2 3  1 2 7  1 2 8
      1 4  93  1 5 -1  2 4 93  2 5 -1
  }
  }
  
# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally
# followed by one of the keywords ASC (smaller values are returned
# first) or DESC (larger values are returned first).
#
# Test cases e_select-8.2.* test the above.
#
# EVIDENCE-OF: R-18705-33393 If neither ASC or DESC are specified, rows
# are sorted in ascending (smaller values first) order by default.
#
# Test cases e_select-8.3.* test the above. All 8.3 test cases are
# copies of 8.2 test cases with the explicit "ASC" removed.
#
do_select_tests e_select-8 {
  2.1  "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
      1 2 -20 1 2 3  1 2 7  1 2 8
      1 4  93  1 5 -1  2 4 93  2 5 -1
  }
  2.2  "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
      2 5 -1 2 4 93  1 5 -1  1 4 93
      1 2 8  1 2 7  1 2 3  1 2 -20
  }
  2.3  "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
      2 4 93  2 5 -1  1 2 8  1 2 7
      1 2 3  1 2 -20 1 4 93  1 5 -1
  }
  2.4  "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
      2 4 93  2 5 -1  1 2 -20 1 2 3
      1 2 7  1 2 8  1 4 93  1 5 -1
  }
  3.1  "SELECT * FROM d1 ORDER BY x, y, z" {
      1 2 -20 1 2 3  1 2 7  1 2 8
  }

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant
# integer K then the expression is considered an alias for the K-th
# column of the result set (columns are numbered from left to right
# starting with 1).
#
do_select_tests e_select-8.4 {
1  "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
   1 2 -20 1 2 3 1 2 7 1 2 8
   1 4 93 1 5 -1 2 4 93 2 5 -1
}
2  "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
   2 5 -1 2 4 93 1 5 -1 1 4 93
   1 2 8 1 2 7 1 2 3 1 2 -20
}
3  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
   2 4 93 2 5 -1 1 2 8 1 2 7
   1 2 3 1 2 -20 1 4 93 1 5 -1
}
4  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
   2 4 93 2 5 -1 1 2 -20 1 2 3
   1 2 7 1 2 8 1 4 93 1 5 -1
}
5  "SELECT * FROM d1 ORDER BY 1, 2, 3" {
   1 2 -20 1 2 3 1 2 7 1 2 8
   1 4 93 1 5 -1 2 4 93 2 5 -1
}
6  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
   2 4 93 2 5 -1 1 2 8 1 2 7
   1 2 3 1 2 -20 1 4 93 1 5 -1
}
7  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
   2 4 93 2 5 -1 1 2 -20 1 2 3
   1 2 7 1 2 8 1 4 93 1 5 -1
}
8  "SELECT z, x FROM d1 ORDER BY 2" {
   /# 1 # 1 # 1 # 1
9 "SELECT z, x FROM d1 ORDER BY 1" {
   /-20 1  -1 #  -1 #  3 1
   7 1 8 1 93 # 93 #/
}

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier
# that corresponds to the alias of one of the output columns, then the
# expression is considered an alias for that column.
#
do_select_tests e_select-8.5 {
1  "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
    -19 0 0 4 8 9 94 94
}
2  "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
    94 94 9 8 4 0 0 -19
}
3  "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
    /# 1    # 1    # 1    # 1    # 1    # 1    # 2    # 2/
}
4  "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
    /-20 1    -1 #    -1 #    3 1    7 1    8 1    93 #    93 #/
}
}

# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is
# any other expression, it is evaluated and the returned value used to
# order the output rows.
#
# EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT,
# then an ORDER BY may contain any arbitrary expressions.
#
do_select_tests e_select-8.6 {
1  "SELECT * FROM d1 ORDER BY x+y+z" {
    1 2 -20 1 5 -1 1 2 3 2 5 -1
    1 2 7 1 2 8 1 4 93 2 4 93
}
2  "SELECT * FROM d1 ORDER BY x*z" {
    1 2 -20 2 5 -1 1 5 -1 1 2 3
    1 2 7 1 2 8 1 4 93 2 4 93
}
3  "SELECT * FROM d1 ORDER BY y*z" {
    1 2 -20 2 5 -1 1 5 -1 1 2 3
    1 2 7 1 2 8 2 4 93 1 4 93
}
}
However, if the SELECT is a compound
SELECT, then ORDER BY expressions that are not aliases to output
columns must be exactly the same as an expression used as an output
column.

```
# do_select_tests e_select-8.7.1 -error {
  %s ORDER BY term does not match any column in the result set
} {
  1  "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z"  1st
  2  "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}
```

```
# do_select_tests e_select-8.7.2 {
  1  "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
    -20 -2 -1 3 7 8 93 186 babied barked commercials gently
    iterate lad pragmatist reemphasizes rejoicing solemnness
  }
  2  "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {
    1 -1 1 0 1 0 1 0 1 0 2 -2 2 0
    babied charitableness barked interrupted commercials bathrobe gently
    failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
    rejoicing liabilities solemnness annexed
  }
}
```

```
# do_execsql_test e_select-8.8.0 {
CREATE TABLE d3(a);
  INSERT INTO d3 VALUES('text');
  INSERT INTO d3 VALUES(14.1);
  INSERT INTO d3 VALUES(13);
  INSERT INTO d3 VALUES(15);
  INSERT INTO d3 VALUES(12.9);
  INSERT INTO d3 VALUES(null);
CREATE TABLE d4(x COLLATE nocase);
  INSERT INTO d4 VALUES('abc');
  INSERT INTO d4 VALUES('ghi');
  INSERT INTO d4 VALUES('DEF');
  INSERT INTO d4 VALUES('JKL');
} {}
```

For the purposes of sorting rows, values
are compared in the same way as for comparison expressions.

```
# The following tests verify that values of different types are sorted
correctly, and that mixed real and integer values are compared properly.
```
do_execsql_test e_select-8.8.1 {
    SELECT a FROM d3 ORDER BY a
} {}

do_execsql_test e_select-8.8.2 {
    SELECT a FROM d3 ORDER BY a DESC
} {xxx text 15 14.1 13 12.9 {}}

# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
# collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.
#
do_execsql_test e_select-8.9.1 {
    SELECT x FROM d4 ORDER BY 1 COLLATE binary
} {DEF JKL abc ghi}
do_execsql_test e_select-8.9.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
#   In the test 8.10.2, the only result-column expression has no alias. So the
#   ORDER BY expression is not a reference to it and therefore does not inherit
#   the collation sequence. In test 8.10.3, "x" is the alias (as well as the
#   column name), so the ORDER BY expression is interpreted as an alias and the
#   collation sequence attached to the result column is used for sorting.
#
do_execsql_test e_select-8.10.1 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1
} {DEF JKL abc ghi}
do_execsql_test e_select-8.10.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY x
} {abc DEF ghi JKL}
do_execsql_test e_select-8.10.3 {
    SELECT x COLLATE binary AS x FROM d4 ORDER BY x
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a
# column or an alias of an expression that is a column, then the default
# collation sequence for the column is used.
#
do_execsql_test e_select-8.11.1 {
    SELECT x AS y FROM d4 ORDER BY y
} {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
    SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#
do_execsql_test e_select-8.12.1 {
    SELECT x FROM d4 ORDER BY x||''
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.
#
do_execsql_test e_select-8.13.0 {
    CREATE TABLE d5(a, b);
    CREATE TABLE d6(c, d);
    CREATE TABLE d7(e, f);

    INSERT INTO d5 VALUES(1, 'f');
    INSERT INTO d6 VALUES(2, 'e');
    INSERT INTO d7 VALUES(3, 'd');
    INSERT INTO d5 VALUES(4, 'c');
    INSERT INTO d6 VALUES(5, 'b');
    INSERT INTO d7 VALUES(6, 'a');

    CREATE TABLE d8(x COLLATE nocase);
    CREATE TABLE d9(y COLLATE nocase);

    INSERT INTO d8 VALUES('a');
    INSERT INTO d9 VALUES('B');
    INSERT INTO d8 VALUES('c');
    INSERT INTO d9 VALUES('D');
} {}

do_select_tests e_select-8.13 { 
1  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY a
   } {1 2 3 4 5 6}
2  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY c
   } {1 2 3 4 5 6}
3  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY e
   } {1 2 3 4 5 6}
4 { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7 ORDER BY 1 } { 1 2 3 4 5 6 }

5 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b } { f 1 c 4 4 c 1 f }

6 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 } { f 1 c 4 4 c 1 f }

7 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a } { 1 f 4 c c 4 f 1 f }

8 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 } { 1 f 4 c c 4 f 1 f }

9 { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 } { f 2 c 5 4 c 1 f }

10 { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 2 } { f 2 c 5 4 c 1 f }

11 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 } { 2 f 5 c c 5 f 2 }

12 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1 } { 2 f 5 c c 5 f 2 }

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in the result columns of any constituent SELECT, it is an error.

#

do_select_tests e_select-8.14 -error {
  %s ORDER BY term does not match any column in the result set
}

1 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 } 1st

2 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 } 2nd

3 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' } 1st

4 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah } 1st

5 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d } 3rd

6 { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b } 4th

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is processed separately and may be matched against result columns from different SELECT statements in the compound.

#

do_select_tests e_select-8.15 {

1 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d } { e 1 f 4 b 4 c }

2 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b } { e 1 f 4 b 4 c }
3  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 }
   {1 e 1 f 4 b 4 c}
}

# Tests related to statements made about the LIMIT/OFFSET clause.
#
# do_execsql_test e_select-9.0 {
   CREATE TABLE f1(a, b);
   INSERT INTO f1 VALUES(26, 'z');
   INSERT INTO f1 VALUES(25, 'y');
   INSERT INTO f1 VALUES(24, 'x');
   INSERT INTO f1 VALUES(23, 'w');
   INSERT INTO f1 VALUES(22, 'v');
   INSERT INTO f1 VALUES(21, 'u');
   INSERT INTO f1 VALUES(20, 't');
   INSERT INTO f1 VALUES(19, 's');
   INSERT INTO f1 VALUES(18, 'r');
   INSERT INTO f1 VALUES(17, 'q');
   INSERT INTO f1 VALUES(16, 'p');
   INSERT INTO f1 VALUES(15, 'o');
   INSERT INTO f1 VALUES(14, 'n');
   INSERT INTO f1 VALUES(13, 'm');
   INSERT INTO f1 VALUES(12, 'l');
   INSERT INTO f1 VALUES(11, 'k');
   INSERT INTO f1 VALUES(10, 'j');
   INSERT INTO f1 VALUES(9, 'i');
   INSERT INTO f1 VALUES(8, 'h');
   INSERT INTO f1 VALUES(7, 'g');
   INSERT INTO f1 VALUES(6, 'f');
   INSERT INTO f1 VALUES(5, 'e');
   INSERT INTO f1 VALUES(4, 'd');
   INSERT INTO f1 VALUES(3, 'c');
   INSERT INTO f1 VALUES(2, 'b');
   INSERT INTO f1 VALUES(1, 'a');
   }
#
# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.
#
# do_select_tests e_select-9.1 {
   1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
   2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
   3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'c') }
       {a b c d e}
   4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e} 

# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#

do_select_tests e_select-9.2 -error "datatype mismatch" {
1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
3  { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}
4  { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}
5  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}
}

# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a
# negative value, then there is no upper bound on the number of rows
# returned.
#

do_select_tests e_select-9.4 {
1  { SELECT b FROM f1 ORDER BY a LIMIT -1 } {a b c d e f g h i j k l m n o p q r s t u v w x y z}
2  { SELECT b FROM f1 ORDER BY a LIMIT length('abc')-100 } {a b c d e f g h i j k l m n o p q r s t u v w x y z}
3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 } {a b c d e f g h i j k l m n o p q r s t u v w x y z}
}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N
# rows of its result set only, where N is the value that the LIMIT
# expression evaluates to.
#

do_select_tests e_select-9.5 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
2  { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
3  { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
4  { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o}
}

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return
# less than N rows without a LIMIT clause, then the entire result set is
# returned.
#

do_select_tests e_select-9.6 {
1  { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
2  { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5 5}
}
The expression attached to the optional OFFSET clause that may follow a LIMIT clause must also evaluate to an integer, or a value that can be losslessly converted to an integer.

```
foreach {tn select} {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
  2  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
  3  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
  4  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
  5  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1) }
}
```

do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}

If an expression has an OFFSET clause, then the first M rows are omitted from the result set returned by the SELECT statement and the next N rows are returned, where M and N are the values that the OFFSET and LIMIT clauses evaluate to.

```
do_select_tests e_select-9.8 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
  3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b='j')
      OFFSET (SELECT a FROM f1 WHERE b='b')
      {c d e f g h i j k l}
  4  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
  5  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
  6  { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
  7  { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}
```

Or, if the SELECT would return less than M+N rows if it did not have a LIMIT clause, then the first M rows are skipped and the remaining rows (if any) are returned.

```
do_select_tests e_select-9.9 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
  2  { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}
```

If the OFFSET clause evaluates to a
# negative value, the results are the same as if it had evaluated to zero.

#

do_select_tests e_select-9.10 {
    1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
    2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
    3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
}

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the LIMIT clause may specify two scalar expressions separated by a comma.

#

# EVIDENCE-OF: R-33788-46243 In this case, the first expression is used as the OFFSET expression and the second as the LIMIT expression.

#

do_select_tests e_select-9.11 {
    1  { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
    2  { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
    3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j') } {c d e f g h i j k l}
    4  { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
    5  { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}
    6  { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
    7  { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}

    8  { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
    9  { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}

    10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
    11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
    12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}

finish_test

Found in path(s):

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

application code is free to use these routines as well, if desired.

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/34to35.html

No license file was found, but licenses were detected in source scan.
OPEN SOURCE USED IN CISCO VISION DYNAMIC SIGNAGE DIRECTOR 6.4

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.90/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
fTjIl2WH1/sqlite-src-3071700.zip-cosi-expand-archive-kRmLF99B/sqlite-src-3071700/src/pager.c

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

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
    }

    /*
    # Return a pointer to the "temporary page" buffer held internally
    # by the pager. This is a buffer that is big enough to hold the
    # entire content of a database page. This buffer is used internally
    # during rollback and will be overwritten whenever a rollback
    # occurs. But other modules are free to use it too, as long as
    # no rollbacks are happening.
    */
    */

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

- If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
- If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge volume will be the parent’s minimum volume.
- For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction | Volume Hedged
--- | ---
1       - 24990       0
2500 - 54995000 | 5000
5500 - 64996000 | 6000

---

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.
The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager
-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
   If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well. Thanks.
   Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

'):;
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR
LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)'. The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&TV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website. ');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you..');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)'. The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&TV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website. ');
 INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin
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- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com','TRV Notification: (NG - PROPT P/L - 09/27/2001)'. The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&TV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website. ');
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Thank for your help!');
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- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
You are invited to attend the EWS Brown Bag Lunch Series

Featuring:  RAY BOWEN, COO

Topic:  Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch.           Limited Seating
We provide drinks and dessert.   RSVP x 3-9610)

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: 
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,'
As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC.

Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.


<table>
<thead>
<tr>
<th>Insert into email([from],[to],subject,body) VALUES('<a href="mailto:dutch.quigley@enron.com">dutch.quigley@enron.com</a>', '<a href="mailto:rwolkwitz@powermerchants.com">rwolkwitz@powermerchants.com</a>', '', 'Here is a goody for you');</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’<a href="mailto:rourke@enron.com">rourke@enron.com</a>', 'k <a href="mailto:..allen@enron.com">..allen@enron.com</a>, <a href="mailto:randy.bhatia@enron.com">randy.bhatia@enron.com</a>, <a href="mailto:frank.ermis@enron.com">frank.ermis@enron.com</a>,’ ‘TRV Notification: (West VaR - 11/07/2001)’, The report named: West VaR <a href="http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&amp;report_name=West+VaR&amp;category_cd=2&amp;category_name=WEST&amp;toc_hide=1&amp;sTV1=2&amp;TV1Exp=Y&amp;current_efct_date=11/07/2001">http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&amp;report_name=West+VaR&amp;category_cd=2&amp;category_name=WEST&amp;toc_hide=1&amp;sTV1=2&amp;TV1Exp=Y&amp;current_efct_date=11/07/2001</a>, published as of 11/07/2001 is now available for viewing on the website.');</td>
</tr>
</tbody>
</table>
| INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,’ ‘Enron / HPL Actuals for July 10, 2000’, 'Teco Tap       10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC       30.000 / Enron

'); |
| INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice’, 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira’); |
| INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com’, ‘Huber Internal Memo’, ‘Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

’); |
| INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', ‘George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JM Forney
3-7160’); |
| INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com’, ‘Re: (no subject)’, ‘not yet’); |
| INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com’, ‘FW: Curve Fetch File’, ‘Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227
-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';
From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and
updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: i will try to line up a pig for you ’);
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,','CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax: (415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?
Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com',
'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@UEEnronXGate
cc: Ross Sankey/Enron@UEEnronXGate, Eric Shaw/ENRON@UEEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters of intent
  Review Enron asset base for potential reuse/ licensing
  Contract negotiations
Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', ' ---------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '----------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM -----------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG   3-9573
From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:  
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.


ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays. PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com,'
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

To: felicia.case@enron.com, b..clapp@enron.com,

Subject: Price List week of Oct. 8-9, 2001

Dear [Recipient],

Thank you for your email. I have reviewed the price list for the week of Oct. 8-9, 2001, and I am sending it attached in this email. Please let me know if you have any questions regarding the prices.

Thank you,

[Your Name]

To: felicia.case@enron.com, b..clapp@enron.com,

Subject: Price List week of Oct. 8-9, 2001

Dear [Recipient],

I have attached the price list for the week of Oct. 8-9, 2001. Please let me know if you have any questions regarding the prices.

Thank you,

[Your Name]

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

To: edward.baughman@enron.com, billy.braddock@enron.com

Subject: Associated

Dear [Recipient],

Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

To: stacy.dickson@enron.com

Subject: RE: Constellation TC 5-7-01

Dear [Recipient],

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

To: joe.quenet@enron.com, dfincher@utilicorp.com

Subject: hello big guy.....check this out.....

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

To: kourtney.nelson@enron.com, mike.swerzbin@enron.com

Subject: Adjusted L/R Balance

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email(from,to,subject,body) VALUES('stephanie.panus@enron.com',
'lliam.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email(from,to,subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???, ','

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email(from,to,subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.
Thanks

chris
x31666);
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)
Chairperson: Outlook Migration Team
Detailed Description: ');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,
Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:
Open Source Used In Cisco Vision Dynamic Signage Director 6.4 11321

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Reliant
Steve McGinn 713-207-4000

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

----- End of Original Message ----

John
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg;

COMMIT;

getattr(email, 'rowid')
do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 0 143 3 0 240 3}}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 0 143 3 0 240 3}}
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
  }
}
WHERE body MATCH 'gas reminder'
}
} {20 [3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 [3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7]}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
  }
} {32 [3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7]}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20, 2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
    Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
  execsql {

SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'deal sheet potential reuse'
}

{{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}
do_test fts2c-4.5 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'first things'
}
{{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts2c-4.6 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
}
{{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"
}
{{<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'
}
{{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b>
schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b> }}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'
31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2

six reports:
31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2

finish_test

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>
Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*   
*   Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's
MLAA” in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora’s copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.935 hibernate 3.3.2.GA

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 *
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 *
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 *
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jar/com/mongodb/ConcurrentLinkedDeque.java
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jar/com/mongodb/Server.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/BSONBinaryWriter.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/BulkUpdateRequestBuilder.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/org/bson/LazyDBList.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/NoOpClusterListener.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/DBEncoderFactory.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/SocketSettings.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
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* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/ServerSettings.java
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jar/com/mongodb/BulkWriteException.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/LatencyMinimizingServerSelector.java
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jar/com/mongodb/MongoSocketException.java
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* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/MongosHAServerSelector.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
jar/com/mongodb/io/ByteBufferInputStream.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-
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* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/ClusterConnectionMode.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/NewBSONDecoder.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/util/ObjectSerializer.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/LazyDBList.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/MongoURI.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/MongoClient.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/ConnectionEvent.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/JMXConnectionPoolListener.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/DBDecoder.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/types/MinKey.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/ClusterSettings.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/BulkWriteOperation.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/BulkWriteResult.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/util/StringRangeSet.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/DBCallbackFactory.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/Mongo.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/MongoClientException.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/BSONDecoder.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/DBConnector.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/LazyDBObject.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/ServerError.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/UnacknowledgedBulkWriteResult.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/DefaultClusterableServerFactory.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/AggregationOptions.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/io/ByteStream.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/DB.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/MongoException.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/types/MaxKey.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/com/mongodb/BasicDBObject.java

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* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/util/annotations/NotThreadSafe.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/util/annotations/GuardedBy.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/util/annotations/ThreadSafe.java
* /opt/cola/permits/1158684700_1623675799.38/0/mongo-java-driver-2-12-1-sources-1-jar/org/bson/util/annotations/Immutable.java

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(1)

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- com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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1.944 glibc 2.17

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<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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1.949 rack 1.6.4

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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/junit4/AbstractJUnit4SpringContextTests.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/client/RequestExpectation.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/annotation/Timed.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/ForwardRequestPostProcessor.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/client/response/MockRestResponseCreators.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/util/AssertionErrors.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/junit4/statements/ProfileValueChecker.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/servlet/DispatcherServletCustomizer.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/MergedContextConfiguration.java
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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/junit4/SpringJUnit4ClassRunner.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/annotation/Rollback.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/ContextConfigurationAttributes.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1.jar/org/springframework/test/annotation/Commit.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1.jar/org/springframework/mock/http/client/MockClientHttpRequest.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1.jar/org/springframework/test/web/client/MockMvcClientHttpRequestFactory.java
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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1.jar/org/springframework/test/context/junit4/SpringRunner.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1.jar/org/springframework/test/context/web/WebTestContextBootstrapper.java
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  jar/org/springframework/test/util/ReflectionTestUtils.java
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jar/org/springframework/test/web/servlet/result/StatusResultMatchers.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-
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jar/org/springframework/test/web/htmlunit/HtmlUnitDriver.java
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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/servlet/setup/MockMvcConfigurer.java
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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/web/WebDelegatingSmartContextLoader.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/mock/web/portlet/MockMimeResponse.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/support/DelegatingSmartContextLoader.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/servlet/setup/MockMvcConfigurerAdapter.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/testng/AbstractTestNGSpringContextTests.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/servlet/support/ConfigurableMvcBuilder.java
* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/web/servlet/request/ConfigurableSmartRequestBuilder.java
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jar/org/springframework/mock/env/MockPropertySource.java
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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1.jar/org/springframework/test/context/junit4/statements/RunPrepareTestInstanceCallbacks.java
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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1.jar/org/springframework/test/context/support/DirtiesContextTestExecutionListener.java
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* /opt/cola/permits/1135839974_1613612933.31/0/spring-test-4-3-29-release-sources-1-jar/org/springframework/test/context/support/AbstractTestContextBootstrapper.java
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  jar/org/springframework/test/web/servlet/request/MockHttpServletRequestBuilder.java

1.952 findutils 4.5.11-5.el7

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"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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its purpose remains meaningful.

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

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

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

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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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
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Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or
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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.

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

Appendix C: The MPL License

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Version 1.1

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**StatefulKnowledgeSession** is the most common way to interact with a rules engine. A StatefulKnowledgeSession allows the application to establish an iterative conversation with the engine, where the reasoning process may be triggered multiple times for the same set of data. After the application finishes using the session, though, it must call the `dispose()` method in order to free the resources and used memory.

Simple example showing a stateful session executing for a given collection of Java objects.

```java
KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
assertFalse( kbuilder.hasErrors() );
if (kbuilder.hasErrors() ) {
    System.out.println( kbuilder.getErrors() );
}
KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );

StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
for( Object fact : facts ) {
    ksession.insert( fact );
}
ksession.fireAllRules();
ksession.dispose();
```

StatefulKnowledgeSessions support globals.Globals are used to pass information into the engine and receive callbacks from your rules, but they should not be used to reason over. If you need to reason over your data, make sure you insert it as a fact, not a global.

Globals are shared among ALL your rules, so be especially careful of (and avoid as much as possible) mutable globals. Also, it is a good practice to set your globals before inserting your facts. Rules engines evaluate rules at fact insertion time, and so, if you are using a global to constraint a fact pattern, and the global is not set, you may receive a `NullPointerException`.

Globals can be resolved in two ways. The StatefulKnowledgeSession supports `getGlobals()` which returns the internal Globals, which itself...
* can take a delegate. Calling of setGlobal(String, Object) will set the global on an internal Collection. Identifiers in this internal
* Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in
* the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.

*/

<p>Code snippet for setting a global:</p>
<pre>
StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
interactions in the rules.
for( Object fact : facts ) {
    ksession.insert( fact );
}
ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
ksession.dispose();
</pre>

Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a
StatefulKnowledgeSession. See CommandExecutor
for more details.

*/

@see org.drools.runtime.Globals
*/

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* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/event/rule/WorkingMemoryEventListener.java
* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/event/rule/AgendaEventListener.java
* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/event/rule/AgendaGroupEvent.java
* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/event/rule/AgendaGroupPushedEvent.java
* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/event/knowledgebase/BeforeKnowledgeBaseUnlockedEvent.java
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* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/event/process/ProcessCompletedEvent.java
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* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/event/knowledgebase/BeforeKnowledgeBaseLockedEvent.java
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* /opt/cola/permits/1003537026_1607460376.95/0/drools-api-5-0-1-sources-jar/org/drools/conf/SequentialOption.java
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1.960 libmnl 1.0.3-7.el7

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

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

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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
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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
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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,
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changes were used in the work (which must be distributed under
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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
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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
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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
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@enumerate 0
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@item Source Code.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
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Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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".)

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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@end appendixsubsec Preamble

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
@item Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
@item Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

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

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
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@end enumerate

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@end enumerate

@end enumerate

@end enumerate

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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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
state the exclusion of warranty; and each file should have at least
the `copyright`` line and a pointer to where the full notice is found.

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@end example

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

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

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

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@c man end

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      charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is 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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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@appendix@xsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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@end if@info

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@end enumerate

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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
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Otherwise, if the work is a derivative of the Library, you may
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of these things:

1. 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.)

2. 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
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   properly with a modified version of the library, if the user installs
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permitted, and provided that you do these two things:

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facilities. This must be distributed under the terms of the
Sections above.
@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 enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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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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@example
Copyright (C) @var{year}  @var{name of author}

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USA.
@end example

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
@example
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end example

That's all there is to it!

1.963 mule-transport-jetty 3.6.1
1.963.1 Available under license :
No license file was found, but licenses were detected in source scan.

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* /opt/ws_local/PERMITS_SQL/1025582813_1594525778.57/0/mule-transport-jetty-3-6-1-sources-1-jar/org/mule/transport/servlet/jetty/ConnectorHolder.java
* /opt/ws_local/PERMITS_SQL/1025582813_1594525778.57/0/mule-transport-jetty-3-6-1-sources-1-jar/org/mule/transport/servlet/jetty/config/JettySslNamespaceHandler.java

1.964 osgi-core 4.2.0.200908310645
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1.992 poi-ooxml-schemas 3.10-FINAL

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a spare opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.
Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.
Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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

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

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* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2-jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
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* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/scheduling/concurrent/ScheduledExecutorFactoryBean.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/cache/interceptor/CachePutOperation.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java
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* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/scheduling/annotation/Scheduled.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/format/datetime/DateTimeFormatterFactory.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java

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* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/cache/interceptor/ExpressionEvaluator.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/cache/interceptor/CacheableOperation.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/cache/interceptor/CacheOperation.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.
*
* <p>Exposes the [code MBeanServer] for bean references.
* This FactoryBean is a direct alternative to [link MBeanServerFactoryBean],
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* 
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see java.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2-
  jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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  jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
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  jar/org/springframework/format/AnnotationFormatterFactory.java
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  jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /opt/ cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2-
  jar/org/springframework/jmx/export/MBeanExportException.java
* /opt/ cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2-
  jar/org/springframework/instrument/classloading/glassfish/GlassFishClassLoaderAdapter.java
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* /opt/ cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2-
  jar/org/springframework/context/MessageSource.java
* /opt/ cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2-
  jar/org/springframework/ejb/support/AbstractStatefulSessionBean.java
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  jar/org/springframework/ejb/access/EjbAccessException.java
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  jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
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  jar/org/springframework/context/support/GenericApplicationContext.java
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  jar/org/springframework/format/annotation/NumberFormat.java
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  jar/org/springframework/context/annotation/ScopeMetadata.java
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  jar/org/springframework/remoting/rmi/RmiBasedExporter.java
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- /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/validation/KeyNamingStrategy.java
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- /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/jmx/JmxException.java
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- /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/jmx/export/metadata/ManagedResource.java
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jar/org/springframework/jmx/export/annotation/ManagedOperation.java
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* /opt/cola/permits/1158685647_1619822591.42/0/spring-context-3-2-10-release-sources-2.jar/org/springframework/remoting/support/RemoteInvocationFactory.java
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1.1008 jnr-constants 0.8.4

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* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
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* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/marshalling/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallProvider.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/ReplayingDecoderBuffer.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/ReplayingDecoderBuffer.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.

The value of the length field in this example is \tt12 (0x0C)<tt which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.

The value of the length field in this example is \tt12 (0x0C)<tt which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.

Because we can get the length of the content by calling
{@link ByteBuf#readableBytes()}, you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified \(<tt>2</tt>\), that is same with the length of the length field, to
* strip the first two bytes.
* \(<pre>\)
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* \(<b>initialBytesToStrip</b> = \(<b>2</b>\) (= the length of the Length field)
* \(</pre>\)
* \(<h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>\)
* \(<h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>\)
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \(<tt>lengthAdjustment</tt>\). Because the length value in this example message
* is always greater than the body length by \(<tt>2</tt>\), we specify \(<tt>-2</tt>\) for compensation.
* \(<pre>\)
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* \(<b>lengthAdjustment</b> = \(<b>-2</b>\) (= the length of the Length field)
* initialBytesToStrip =  0
* \(</pre>\)
* \(<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>\)
* \(<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.</h3>\)
* \(<pre>\)
* \(<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 |
  | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
  +----------+----------+----------------+
* </pre>
*  
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  +----------+----------+----------------+ -----> +----------+----------+----------------+
  | Header 1 | Length  | Actual Content |
  | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
  +----------+----------+----------------+
* </pre>
*  
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  +----------+----------+----------------+ -----> +----------+----------+----------------+
  | Length  | Header 1 | Actual Content |
  | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
  +----------+----------+----------------+
* </pre>
*  
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
  +------+-+------+-+----------------+ -----> +------+-+----------------+
  | HDR1 | Length | HDR2 | Actual Content |
  | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
  +------+-+------+-+----------------+
2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message.

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.

We have to count the length of HDR1 and Length into lengthAdjustment.

Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = HDR1 + LEN, negative
initialBytesToStrip = 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>---</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>
<td></td>
</tr>
</tbody>
</table>

lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = HDR1 + LEN, negative
initialBytesToStrip = 3

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

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<th>HDR1</th>
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<td>0xCA</td>
<td>0x0010</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td></td>
</tr>
</tbody>
</table>

@see LengthFieldPrepender

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* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4.0.20-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* The encoding and decoding algorithm in this class has been derived from
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Base64 Encoder/Decoder

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* /opt/ws_local/PERMITS_SQL/1076874059_1596713229.92/0/netty-codec-4-0-20-final-sources-1-jar/io/netty/handler/codec/base64/Base64.java

1.1012 mule-module-spring-config 3.6.1

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* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/PoolingProfileDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/assembly/AbstractMapBeanAssembler.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/assembly/configuration/TempWrapperPropertyConfiguration.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/processors/NamedSetterChildElementIterator.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/InterceptorDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/AbstractFlowConstructDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/StaticComponentDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/NotificationListenersPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/StaticComponentDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/MuleContextPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/ServiceDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/FlowRefDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/collection/OrphanMapDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/providers/ProvideDefaultFName.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/collection/FlowRefDefinitionParser.java
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* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/processors/CheckExclusiveAttributesAndChildren.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/processors/CheckExclusiveAttributesAndChildren.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/processors/AddAttribute.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/MuleDomainNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/collection/AttributeMapDefinitionParser.java
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* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/InterceptorStackDefinitionParser.java
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* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/factories/DefaultPersistentQueueStoreFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/PreProcessor.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/ImportMapEntryDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/specific/DefaultPersistentQueueStoreFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582825_1594422583.05/0/mule-module-spring-config-3-6-1-sources-jar/org/mule/config/spring/parsers/delegate/InheritDefinitionParser.java
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1.1013 jibx 1.2.4.5
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* /opt/ws_local/PERMITS_SQL/1010807706_1594416313.24/0/jibx-run-1-2-4-5-sources-jar/org/jibx/runtime/RecoverableException.java
* /opt/ws_local/PERMITS_SQL/1010807706_1594416313.24/0/jibx-run-1-2-4-5-sources-jar/org/jibx/runtime/impl/BackFillReference.java
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* /opt/ws_local/PERMITS_SQL/1010807706_1594416313.24/0/jibx-run-1-2-4-5-sources-jar/org/jibx/runtime/impl/XMLWriterBase.java
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* /opt/ws_local/PERMITS_SQL/1010807706_1594416313.24/0/jibx-run-1-2-4-5-sources-jar/org/jibx/runtime/impl/UTF8StreamWriter.java

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* /opt/ws_local/PERMITS_SQL/1010807706_1594416313.24/0/jibx-run-1-2-4-5-sources-
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*/opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/util/AbstractNavigableMap.java
*/opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/web/bindery/autobean/gwt/client/impl/NullSplittable.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/user/client/rpc/core/java/util/InternalJsStringMap.java

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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-
* jar/com/google/gwt/i18n/server/keygen/package-info.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-
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* jar/com/google/gwt/user/client/ui/MenuBar.java
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* jar/com/google/gwt/junit/ModuleBatchingStrategy.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-
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* jar/com/google/gwt/uibinder/rebind/UiBinderParser.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/event/dom/client/MouseMoveHandler.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/io/IOException.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/view/client/AsyncDataProvider.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/cell/client/FieldUpdater.java
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jar/com/google/gwt/logging/impl/LevelImplNull.java
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jar/com/google/gwt/user/cellview/client/IdentityColumn.java
* /opt/cola/permits/1085366084_1623675134.57/gwt-user-2-7-0-sources-
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/dom/builder/shared/HtmlOLListBuilder.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/dom/builder/client/DomCanvasBuilder.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/resources/css/ast/CssNoFlip.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/junit/linker/JUnitSymbolMapsLinker.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/resources/css/RequirementsCollector.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/resources/css/DefsCollector.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/core/client/impl/WeakMapping.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/core/client/impl/XhrLoadingStrategy.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/AnimatedLayout.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/ResizeComposite.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/core/client/Scheduler.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/impl/FailingRequestBuilder.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/uibinder/rebind/FieldWriterOfGeneratedCssResource.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/uibinder/attributeparsers/CssNameConverter.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/core/java/lang/StackTraceElement_CustomFieldSerializer.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/ResetButton.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/dom/client/NativeEvent.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/EventPreview.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/RootLayoutPanel.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/json/client/JSONException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/IndexedPanel.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/http/client/URL.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/ClickListener.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/SourcesMouseEvents.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/RemoteService.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ScrollListener.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/ServiceDefTarget.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/MouseListenerAdapter.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/http/client/RequestPermissionException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/HasText.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/DelegatingFocusListenerCollection.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/core/java/lang/Byte_CustomFieldSerializer.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/util/EventObject.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/xml/client/DOMException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/KeyboardListenerAdapter.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/ButtonBase.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/xml/client/impl/DOMParseException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/lang/ClassCastException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/core/java/lang/Object_Array_CustomFieldSerializer.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/impl/Serializer.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/SerializationException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/xml/client/Comment.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/HasAlignment.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/EventListener.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/xml/client/impl/DOMParseException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/http/client/RequestTimeoutException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/junit/client/TimeoutException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/util/TooManyListenersException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/EventListenable.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/xml/client/DocumentFragment.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/lang/IllegalStateException.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/validation/client/impl/GroupChain.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/core/shared/GWT.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/validation/client/impl/GroupValidator.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/core/server/GwtServletBase.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/validation/client/impl/GroupChainGenerator.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/validation/client/impl/Group.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/user/client/CommandExecutor.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/uibinder/elementparsers/HasTextParser.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/user/client/ui/FocusPanel.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/uibinder/elementparsers/StackPanelParser.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/uibinder/elementparsers/HasWidgetsParser.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/uibinder/elementparsers/DockPanelParser.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/user/client/ui/MultiWordSuggestOracle.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/i18n/tools/I18NCreator.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources.jar/com/google/gwt/user/client/ui/MouseWheelVelocity.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/uibinder/client/impl/AbstractUiRenderer.java

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 */

/**
 * The primary interface a caller must implement to receive a response from a remote procedure call.
 */
* If an RPC is successful, then [@link #onSuccess(Object)] is called, otherwise
* [@link #onFailure( Throwable )] is called.
*  
*  
* Each callable asynchronous method corresponds to a method in the correlated
* service interface. The asynchronous method always takes an
* `<code>AsyncCallback&lt;T&gt;</code>` as its last parameter, where
* `<code>T</code>` is the return type of the correlated synchronous method.
*  
* As an example, suppose the service interface defines a method called
* `<code>getShapes</code>` as follows:
*  
* `<pre>
Shape[] getShapes(String databaseName) throws ShapeException, DbException;
</pre>`
*  
* Its asynchronous counterpart method be declared as:
*  
* `<pre>
void getShapes(String databaseName, AsyncCallback&lt;Shape[]&gt; callback);
</pre>`
*  
* Note that `<code>throws</code>` declaration is not repeated in the async
* version.
*  
* A call with a typical use of `<code>AsycnCallback</code> might look like
* this:
*  
* `<pre class="code">
  service.getShapes(dbName, new AsyncCallback&lt;Shape[]&gt;() { 
  public void onSuccess(Shape[] result) { 
    // It's always safe to downcast to the known return type.
    controller.processShapes(result); 
  } 
  
  public void onFailure( Throwable caught) { 
    // Convenient way to find out which exception was thrown.
    try { 
      throw caught; 
    } catch ( IncompatibleRemoteServiceException e ) { 
      // this client is not compatible with the server; cleanup and refresh the
      // browser
  }
</pre>`
* } catch (InvocationException e) {
*     // the call didn't complete cleanly
* } catch (ShapeException e) {
*     // one of the 'throws' from the original method
* } catch (DbException e) {
*     // one of the 'throws' from the original method
* } catch (Throwable e) {
*     // last resort -- a very unexpected exception
* }
* }
* });
* </pre>
*
* @param <T> The type of the return value that was declared in the synchronous
*     version of the method. If the return type is a primitive, use the
*     boxed version of that primitive (for example, an <code>int</code>
*     return type becomes an [@link Integer] type argument, and a
*     <code>void</code> return type becomes a [@link Void] type
*     argument, which is always <code>null</code>). */

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jar/com/google/gwt/aria/client/GridRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/SeparatorRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/MenuitemradioRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/TabRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/DocumentRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/StatusRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/ColumnheaderRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/ButtonRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/RowRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/SeparatorRoleImpl.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/TooltipRole.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/MenubarRoleImpl.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/SearchRole.java

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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/ApplicationRoleImpl.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/Attribute.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/aria/client/CheckboxRole.java
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jar/com/google/gwt/typedarrays/shared/Uint32Array.java
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jar/com/google/gwt/user/rebind/rpc/TypeParameterExposureComputer.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-
jar/com/google/gwt/uibinder/client/UiConstructor.java

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jar/com/google/gwt/user/server/rpc/NoXsrfProtect.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/math/RoundingMode.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/util/Random.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/math/Primality.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/math/BigDecimal.java

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* /
/**
* Requests that a translation source file be generated from the annotated interface. The file type is determined by the format argument, and the
* file name by the optional fileName argument. Some file formats support
* aggregating messages from multiple interfaces into one file, while others do not; also, additional parameters may be specified via format-specific
* annotations -- see the documentation of the MessageCatalogFormat implementation
* for details.
* Examples:
* <ul>
* <li>&#64;Generate(format = "com.google.gwt.i18n.server.PropertyCatalogFactory")
* <br>generates properties files for all locales, and the names will be
* of the form MyMessages_locale.properties
* <li>&#64;Generate(format = ["com.example.ProprietaryFormat1",
* "com.example.ProprietaryFormat2"],
* fileName = "myapp_translate_source", locales = ["default"])
* <br>generates default files in two proprietary formats, with filenames like
* myapp_translate_source.p1 and myapp_translate_source.p2
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/DelegatingChangeListenerCollection.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/TableListenerCollection.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/FlexTable.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/SuggestionEvent.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/SuggestionEvent.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/rpc/core/java/util/ArrayList_CustomFieldSerializer.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/ChangeListenerCollection.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/lang/NullPointe.../NumberConstantsImpl.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/lang/Iterable.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/FlexTable.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/ChangeListenerCollection.java

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 */

/*
 * Implementation derived from public domain C implementation as of 5
 * September 2007 at:
 * written by Julienne Walker.
 *
 * This version does not require a parent pointer kept in each node.
 */

Found in path(s):
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emul/java/util/AbstractQueue.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/resourses/client/ResourceException.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/TreeListenerCollection.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/emu/java/lang/RuntimeException.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/DisclosureEvent.java
* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-jar/com/google/gwt/user/client/ui/TableListener.java
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* /opt/cola/permits/1085366084_1623675134.57/0/gwt-user-2-7-0-sources-
jar/com/google/web/bindery/requestfactory/vm/impl/ClassComparator.java

1.1017 libvorbis 1.3.5

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1.1030 bean-validation-api 1.0.0.GA

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jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
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  jar/org/springframework/web/context/AbstractContextLoaderInitializer.java
* /opt/cola/permits/1158684880_1619822730.59/0/spring-web-4-1-7-release-sources-2-
  jar/org/springframework/web/client/RestOperations.java
* /opt/cola/permits/1158684880_1619822730.59/0/spring-web-4-1-7-release-sources-2-
  jar/org/springframework/http/HttpHeaders.java
* /opt/cola/permits/1158684880_1619822730.59/0/spring-web-4-1-7-release-sources-2-
  jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java

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  jar/com/google/i18n/phonenumbers/MetadataManager.java
* /opt/cola/permits/1000505084_1606844040.04/0/libphonenumber-6-0-sources-1-
  jar/com/google/i18n/phonenumbers/AsYouTypeFormatter.java
* /opt/cola/permits/1000505084_1606844040.04/0/libphonenumber-6-0-sources-1-
  jar/com/google/i18n/phonenumbers/NumberParseException.java

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jar/com/google/i18n/phonenumbers/RegexpCache.java
* /opt/cola/permits/1000505084_1606844040.04/0/libphonenumber-6-0-sources-1-
jar/com/google/i18n/phonenumbers/Phonemetadata.java
* /opt/ cola/permits/1000505084_1606844040.04/0/libphonenumber-6-0-sources-1-
jar/com/google/i18n/phonenumbers/CountryCodeToRegionCodeMap.java
* /opt/cola/permits/1000505084_1606844040.04/0/libphonenumber-6-0-sources-1-
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jar/com/google/i18n/phonenumbers/PhoneNumberUtil.java

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* jar/org/jaxen/expr/DefaultPlusExpr.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java
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* *
* $Id: LogicalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/LogicalExpr.java
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* $Id: SAXPathException.java,v 1.14 2006/06/03 20:28:45 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/SAXPathException.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LangFunction.java,v 1.13 2006/02/05
  21:47:41 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/FunctionCallException.java
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  18:49:26 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/NamedAccessNavigator.java
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* $Date: 2007/05/02 14:33:29 $
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* $Id: SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/util/SelfAxisIterator.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NameFunction.java,v 1.11 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp $ *
* $Revision: 1.30 $ *
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTest.java,v 1.6 2006/02/05
 21:47:42 elharo Exp $
 * $Revision: 1.6 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/NodeTest.java
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*$Id: BinaryExpr.java,v 1.8 2006/11/09 16:21:04 elharo Exp$
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  jar/org/jaxen/expr/BinaryExpr.java

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/dom/DocumentNavigator.java
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* $Id: XPathFactory.java,v 1.13 2007/05/02 14:32:38 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/XPathFactory.java

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/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/StackedIterator.java
No license file was found, but licenses were detected in source scan.

/*
$Header: /home/projects/jaxon/scm/jaxon/src/java/main/org/jaxon/expr/LocationPath.java,v 1.9 2006/11/08 17:02:21 elharo Exp $
$Revision: 1.9 $
$Date: 2006/11/08 17:02:21 $
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/LocationPath.java

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/PredicateSet.java

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  * $Revision: 1.7 $
  * $Date: 2006/06/03 20:50:12 $
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* $Id: IterableAncestorAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/iter/IterableAncestorAxis.java
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* $Id: DefaultMultiplicativeExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultMultiplicativeExpr.java
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NumberFunction.java,v 1.18 
  2006/02/05 21:47:41 elharo Exp $
 * $Revision: 1.18 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/NumberFunction.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnresolvableException.java,v 1.7 2006/06/03
  20:21:05 elharo Exp $
* $Revision: 1.7 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/UnresolvableException.java
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$Id: DefaultXPathExpr.java,v 1.9 2006/06/03 20:52:26 elharo Exp $
*

Found in path(s):
/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: PatternParser.java,v 1.18 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/pattern/PatternParser.java
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* $Id: EqualityExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/EqualityExpr.java
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* $Id: IterableNamespaceAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableNamespaceAxis.java
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* $Id: DefaultRelativeLocationPath.java,v 1.13 2006/11/30 18:49:27 elharo Exp $
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  jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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* $Id: UnaryExpr.java,v 1.7 2006/11/08 19:06:30 elharo Exp$
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  jar/org/jaxen/expr/UnaryExpr.java
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  jar/org/jaxen/JaxenConstants.java
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/JaxenRuntimeException.java
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* $Id: CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/CountFunction.java
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 * $Revision: 1.13 $
 * $Date: 2006/04/07 17:11:52 $
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 * $Id: Pattern.java,v 1.13 2006/04/07 17:11:52 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1.1.1-patched-shani-1.4-17-sources-
  jar/org/jaxen/pattern/Pattern.java
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringFunction.java,v 1.33 2006/02/05
  21:47:41 elharo Exp $
 * $Revision: 1.33 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/StringFunction.java

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* $Id: IterableChildAxis.java,v 1.11 2006/06/03 20:50:12 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/AncestorAxisIterator.java
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*/

$Id: XPathReader.java,v 1.6 2006/02/05 21:47:42 elharo Exp $

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/XPathReader.java

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$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabean/JavaBeanXPath.java,v 1.6 2006/06/03 20:36:00 elharo Exp $

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/javabean/JavaBeanXPath.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/TextNodeTest.java,v 1.6 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.6 $
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* $Id: DefaultAdditiveExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
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*
* $Id: ProcessingInstructionNodeStep.java,v 1.5 2006/11/08 15:44:33 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/ProcessingInstructionNodeStep.java
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/*
* $Id: DocumentNavigator.java,v 1.8 2006/06/03 20:35:31 elharo Exp $
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* $Id: DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp $
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLogicalExpr.java
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* $Id: AnyNodeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
* */

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/pattern/AnyNodeTest.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultEqualsExpr.java
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* $Id: Function.java,v 1.8 2006/02/05 21:47:41 elharo Exp $
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Found in path(s):
/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultModExpr.java

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16:37:59 elharo Exp $
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* $Id: FunctionCallExpr.java,v 1.9 2006/11/08 16:37:59 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/FunctionCallExpr.java
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* $Id: DefaultExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultExpr.java
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 * 2006/04/07 23:47:37 elharo Exp $
 * $Revision: 1.32 $
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* $Id: UnionPattern.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
* /
*
* Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/pattern/UnionPattern.java
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* 18:49:27 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultPredicate.java
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  2006/06/03 20:19:26 elharo Exp $
* $Revision: 1.18 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/NodeComparator.java
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* $Id: XPathSyntaxException.java,v 1.12 2006/06/03 20:26:36 elharo Exp $
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jar/org/jaxen/XPathSyntaxException.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.6 2006/11/08
15:41:05 elharo Exp $
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$Id: AllNodeStep.java,v 1.6 2006/11/08 15:41:05 elharo Exp $

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/AllNodeStep.java
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  * /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/function/StringLengthFunction.java

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* $Id: EndsWithFunction.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
* /

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ext/EndsWithFunction.java
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* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
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$Id: DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp $
2006/02/05 21:47:42 elharo Exp $
$Revision: 1.11 $
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* $Id: UnsupportedAxisException.java,v 1.11 2006/06/03 20:26:02 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/UnsupportedAxisException.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Operator.java,v 1.5 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/02/05 21:47:42 $
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Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/Operator.java

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2006/11/30 18:49:27 elharo Exp $
 * $Revision: 1.14 $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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/*
$Id: IterableAttributeAxis.java,v 1.9 2006/06/03 20:50:12 elharo Exp $

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* $Id: JaxenHandler.java,v 1.15 2006/03/30 13:53:11 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16
2006/11/13 22:10:09 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/13 22:10:09 $
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  jar/org/jaxen/expr/DefaultGreaterThanExpr.java

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* $Id: DefaultBinaryExpr.java,v 1.10 2007/01/05 18:25:43 elharo Exp $
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  jar/org/jaxen/expr/DefaultBinaryExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NotFunction.java,v 1.9 2006/02/05
  21:47:41 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $  
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingAxisIterator.java,v 1.8
* 2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/09 18:20:12 $
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* $Id: Axis.java,v 1.8 2006/03/30 13:56:36 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/Axis.java

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  elharo Exp $ 
* $Revision: 1.14 $ 
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/Expr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/Token.java,v 1.5 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/02/05 21:47:42 $
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/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/base/Token.java
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/*
  $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NumberExpr.java,v 1.8 2006/11/08
17:17:32 elharo Exp $
  $Revision: 1.8 $
  $Date: 2006/11/08 17:17:32 $

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* $Id: NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/NumberExpr.java
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* $Id: DefaultStep.java,v 1.21 2006/02/05 21:47:40 elharo Exp$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultStep.java

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java

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  jar/org/jaxen/QualifiedName.java
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* $Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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jar/org/jaxen/util/SingletonList.java
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* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:41 $
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$Id: LinkedIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $

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$Id: Step.java,v 1.13 2006/12/10 15:32:14 elharo Exp$
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jar/org/jaxen/expr/Step.java
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$Id: IterableAxis.java,v 1.9 2006/02/05 21:47:42 elharo Exp $

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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/**
 * $Id: DefaultNameStep.java,v 1.53 2007/04/17 01:26:35 bewins Exp $

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* $Id: DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp $  

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/XPathFunctionContext.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultCommentNodeStep.java
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$Id: XPath.java,v 1.13 2007/05/02 15:00:13 elharo Exp $

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* $Id: NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-sheni-1-4-17-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.java

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$Id: XPathReaderFactory.java,v 1.9 2006/09/15 20:41:38 elharo Exp $

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* $Id: IterableDescendantAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java
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$Id: CommentNodeStep.java,v 1.6 2006/11/08 15:42:39 elharo Exp $


$Revision: 1.15 $
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 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
 * $Revision: 1.8 $
 * $Date: 2006/02/05 21:47:42 $
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 * $Id: PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/pattern/PatternHandler.java

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* $Date: 2006/07/03 11:58:31 $
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* $Id: VariableContext.java,v 1.11 2006/07/03 11:58:31 elharo Exp $
* /

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Id: DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp $
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/ /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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* $Id: MultiplicativeExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

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  jar/org/jaxen/expr/MultiplicativeExpr.java
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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
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 is a sponsoring member of the PSF.

All Python releases are Open Source (see https://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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Mersenne Twister

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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---------------------------------------------------------------------
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UUencode and UUdecode functions
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- Arguments more compliant with Python standard

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The :mod:`xmlrpc.client` module contains the following notice::

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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    djb (supercop/crypto_auth/siphash24/little2)
    Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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Jean-loup Gailly  Mark Adler
jlp@gzip.org     madler@alumni.caltech.edu
The implementation of the hash table used by the `tracemalloc` is based on the cfuhash project:

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The `decimal` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:
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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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Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
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  jar/com/ning/http/client/providers/netty/timeout/TimeoutTimerTask.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-
  jar/com/ning/http/client/providers/netty/timeout/RequestTimeoutTimerTask.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-
  jar/com/ning/http/client/providers/netty/timeout/IdleConnectionTimeoutTimerTask.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-
  jar/com/ning/http/client/providers/netty/timeout/TimeoutsHolder.java

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  jar/com/ning/http/client/listenable/AbstractListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-
  jar/com/ning/http/client/listenable/ExecutionList.java
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  jar/com/ning/http/client/providers/grizzly/Utils.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-
  jar/com/ning/http/client/providers/grizzly/FeedableBodyGenerator.java
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 *
 */
/**
 * Value class used for OAuth tokens (request secret, access secret);
 * simple container with two parts, public id part ("key") and
 * confidential ("secret") part.
 */

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* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-
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 */
/**
 * { @link com.ning.http.client.AsyncHttpClient} proprietary configurable properties. Note that properties are
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* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/cookie/KeyValuePairsParser.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/date/RFC2616DateParser.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/AsyncHttpClientConfigDefaults.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/oauth/OAuthSignatureCalculator.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/AsyncCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/FluentStringsMap.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/ByteArrayPart.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/ConsumerKey.java
* /opt/ws_local/PERMITS_SQL/1025582800_1594212695.74/0/async-http-client-1-8-14-sources-jar/com/ning/http/client/AsyncHttpClient.java
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THE BASIC LIBRARY FUNCTIONS

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

Written by: Philip Hazel
PCRE JUST-IN-TIME COMPILATION SUPPORT
-------------------------------------

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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1.1050 mule-module-cxf 3.6.1

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* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/support/MuleServiceConfiguration.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/support/CxfUtils.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/support/CxfOutboundMessageProcessor.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/feature/PrettyLoggingFeature.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/transport/MuleUniversalConduit.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/support/ProxySchemaValidationInInterceptor.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/feature/StaxFeature.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/builder/WebServiceMessageProcessorBuilder.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/config/ProxyServiceFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/builder/JaxWsClientMessageProcessorBuilder.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/config/SimpleClientFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/support/ProxyServiceConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/builder/AbstractClientMessageProcessorBuilder.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/support/CopyAttachmentOutInterceptor.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/config/WsConfig.java
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* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/config/JaxWsClientFactoryBean.java
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* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/support/ProxyGZIPFeature.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/builder/ProxyServiceMessageProcessorBuilder.java
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* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/builder/LocalClientMessageProcessorBuilder.java
* /opt/ws_local/PERMITS_SQL/1025582853_1594408362.54/0/mule-module-cxf-3-6-1-sources-jar/org/mule/module/cxf/config/MuleSecurityManagerValidator.java
1.1051 shadow 4.6-5.el7
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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1.1055 libunistring 0.9.3-9.el7

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Version 3, 29 June 2007

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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 state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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@heading TERMS AND CONDITIONS
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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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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
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@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify
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the Free Software Foundation; either version 2 of the License, or
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You should have received a copy of the GNU General Public License 
along with this program; if not, write to the Free Software 
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Also add information on how to contact you by electronic and paper mail.

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

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it 
under certain conditions; type `show c' for details.

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

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school, if any, to sign a "copyright disclaimer" for the program, if 
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.1057 commons-daemon 1.2.2
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"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

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Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9,  1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May  9 10:39:51 1995
Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey
From friedman@cli.com Thu May 25 12:19:06 1995 Flags: 10
Return-Path: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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  *
  * @see XmlBeans#compileXsd
  */

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2.5.2-sources/net/sf/ehcache/statistics/LiveCacheStatisticsData.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/hibernate/management/impl/CacheRegionUtils.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/config/generator/ConfigurationUtil.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/config/generator/model/elements/ConfigurationElement.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/config/generator/model/elements/SearchableConfigurationElement.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/store/AbstractPolicy.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/store/MemoryStore.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/management/CacheMBean.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/search/aggregator/Aggregators.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/ElementEvictionData.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/distribution/RMISynchronousCacheReplicator.java
* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-
2.5.2-sources/net/sf/ehcache/event/RegisteredEventListener.java
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2.5.2-sources/net/sf/ehcache/store/DiskStoreBootstrapCacheLoader.java
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2.5.2-sources/net/sf/ehcache/search/NullResults.java
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* /opt/ws_local/PERMITS_SQL/1003537427_159361886.6/0/ehcache-core-2-5-2-sources-1-jar/ehcache-core-2.5.2-sources/net/sf/ehcache/stats/LiveCacheStatistics.java
* /opt/ws_local/PERMITS_SQL/1003537427_159361886.6/0/ehcache-core-2-5-2-sources-1-jar/ehcache-core-2.5.2-sources/net/sf/ehcache/core/SampledRateCounterImpl.java
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* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-2.5.2-sources/net/sf/ehcache/store/compound/NullReadWriteCopyStrategy.java
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*/opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-2.5.2-sources/net/sf/ehcache/search/expression/And.java
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*/opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-2.5.2-sources/net/sf/ehcache/CacheException.java
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* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2-5-2-sources-1-jar/ehcache-core-2.5.2-sources/net/sf/ehcache/terracotta/TerracottaClientRejoinListener.java

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 */

/**
 * Returns a list of all element keys in the cache, whether or not they are expired.
 * <p/>
 * The returned keys are unique and can almost be considered a set. See \{@link net.sf.ehcache.store.CacheKeySet
 * CacheKeySet\} for
 * more details.
 * <p/>
 * The List returned is not live. It is a copy.
 * <p/>
 * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
for each 1000 entries.

@throws IllegalStateException if the cache is not @link Status#STATUS_ALIVE

@see net.sf.ehcache.store.CacheKeySet

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* /opt/ws_local/PERMITS_SQL/1003537427_1593631886.6/0/ehcache-core-2.5.2-sources-1-jar/ehcache-core-2.5.2-sources/net/sf/ehcache/Cache.java

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

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

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1.1068 gawk 4.0.2-4.el7

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1.1073 harfbuzz 1.7.5-2.el7

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1.1074 eclipse-core-jobs 3.5.0.v20100515

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1.1075 chemistry-opencmis-commons-api

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  jar/com/google/api/client/http/AbstractInputStreamContent.java
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  jar/com/google/api/client/http/ExponentialBackOffPolicy.java
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  jar/com/google/api/client/http/FileContent.java
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  jar/com/google/api/client/testing/http/MockHttpResponseHandler.java
* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-
  jar/com/google/api/client/util/ArrayValueMap.java
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  jar/com/google/api/client/http/UriTemplate.java
* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-
  jar/com/google/api/client/util/Types.java
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  jar/com/google/api/client/util/Value.java
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  jar/com/google/api/client/http/AbstractHttpContent.java
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  jar/com/google/api/client/testing/http/HttpTesting.java
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  jar/com/google/api/client/http/HttpRequestFactory.java
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  jar/com/google/api/client/testing/http/package-info.java
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1.1077 man-db 2.6.3-9.el7

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</reporting>
1.1079 kexec-tools 2.0.15-43.el7

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package org.apache.commons.httpclient;

import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;

/**
 * Closes an underlying stream as soon as the end of the stream is reached, and
 * notifies a client when it has done so.
 *
 * @author Ortwin Glueck
 * @author Eric Johnson
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
 *
 * @since 2.0
 * /

class AutoCloseInputStream extends FilterInputStream {
/**
 * True if this stream is open. Assume that the underlying stream
 * is open until we get an EOF indication.
 */
private boolean streamOpen = true;

/** True if the stream closed itself. */
private boolean selfClosed = false;

/**
 * The watcher is notified when the contents of the stream have
 * been exhausted
 */
private ResponseConsumedWatcher watcher = null;

/**
 * Create a new auto closing stream for the provided connection
 *
 * @param in the input stream to read from
 * @param watcher To be notified when the contents of the stream have been
 * consumed.
 */
public AutoCloseInputStream(final InputStream in, final ResponseConsumedWatcher watcher) {
    super(in);
    this.watcher = watcher;
}

/**
 * Reads the next byte of data from the input stream.
 *
 * @throws IOException when there is an error reading
 * @return the character read, or -1 for EOF
 */
public int read() throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }
    return l;
}

/**
* Reads up to \texttt{len} bytes of data from the stream.
* 
* \texttt{@param b} a \texttt{byte} array to read data into
* \texttt{@param off} an offset within the array to store data
* \texttt{@param len} the maximum number of bytes to read
* \texttt{@return} the number of bytes read or -1 for EOF
* \texttt{@throws} IOException if there are errors reading
* /

public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }
    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array \texttt{b}.
 * 
 * \texttt{@param b} a \texttt{byte} array to read data into
 * 
 * \texttt{@return} the number of bytes read or -1 for EOF
 * \texttt{@throws} IOException if there are errors reading
 * /

public int read(byte[] b) throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
}

/**
 * Close the stream, and also close the underlying stream if it is not
 * already closed.
 * 
 * \texttt{@throws} IOException If an IO problem occurs.
 * /

public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}
/**
 * Close the underlying stream should the end of the stream arrive.
 *
 * @param readResult    The result of the read operation to check.
 * @throws IOException If an IO problem occurs.
 */
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

/**
 * See whether a read of the underlying stream should be allowed, and if
 * not, check to see whether our stream has already been closed!
 *
 * @return <code>true</code> if it is still OK to read from the stream.
 * @throws IOException If an IO problem occurs.
 */
private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

/**
 * Notify the watcher that the contents have been consumed.
 * @throws IOException If an IO problem occurs.
 */
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;

        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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### 1.1102 pip 9.0.3

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History:
Date   Who     What
11Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/ReaderPreferenceReadWriteLock.java
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*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedMap.java
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5Aug1998 dl    replaced int counters with longs
24Aug1999 dl    release(n): screen arguments
*/

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History:
Date   Who    What
7Jul1998 dl    Create public version
16Jul1998 dl    fix initialization error for compute loops
combined into one frame
misc layout and defaults changes
increase printed precision
overlap get/set in Executor tests
Swap defaults for swing import
Active thread counts reflect executors
30Aug1998 dl      Misc revisions to mesh with 1.1.0
27Jan1999 dl      Eliminate GC calls
24Nov2001 dl      Increase some default values
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/misc/SynchronizationTimer.java
No license file was found, but licenses were detected in source scan.

*/
File: SemaphoreControlledChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
16Jun1998  dl               Create public version
05Aug1998  dl               replaced int counters with longs
08Dec2001  dl               reflective constructor now uses longs too.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/SemaphoreControlledChannel.java
No license file was found, but licenses were detected in source scan.

*/
File: Task.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
07Jan1999  dl                 first release
14Jan1999  dl                 simplify start() semantics;
improve documentation
18Jan1999  dl                 Eliminate useless time-based waits.
07Mar1999  dl                 Add reset method,
add array-based composite operations
27Apr1999  dl                 Rename
*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/FJTask.java
No license file was found, but licenses were detected in source scan.

/*
File: LayeredSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/LayeredSync.java
No license file was found, but licenses were detected in source scan.

/*
File: ClockDaemon.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
29Aug1998  dl               created initial public version
17dec1998  dl               null out thread after shutdown
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/ClockDaemon.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableLong.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

Date       Who                What
23Jun1998  dl               Create public version
13may2004  dl               Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableLong.java
No license file was found, but licenses were detected in source scan.

/*
File: PooledExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

Date       Who                What
19Jun1998  dl               Create public version
29aug1998  dl               rely on ThreadFactoryUser, remove ThreadGroup-based methods
adjusted locking policies
3mar1999   dl               Worker threads sense decreases in pool size
31mar1999  dl               Allow supplied channel in constructor;
add methods createThreads, drain
15may1999  dl               Allow infinite keepalives
21oct1999  dl               add minimumPoolSize methods
7sep2000   dl               BlockedExecutionHandler now an interface,
new DiscardOldestWhenBlocked policy
12oct2000  dl               add shutdownAfterProcessingCurrentlyQueuedTasks
13nov2000  dl               null out task ref after run
08apr2001  dl               declare inner class ctor protected
12nov2001  dl               Better shutdown support
Blocked exec handlers can throw IE
Simplify locking scheme
25jan2001  dl               {get,set}BlockedExecutionHandler now public
17may2002  dl               null out task var in worker run to enable GC.
30aug2003  dl               check for new tasks when timing out
18feb2004  dl               replace dead thread if no others left
*/

Found in path(s):
File: Rendezvous.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

Date    Who    What
11Jun1998 dl  Create public version
30Jul1998 dl  Minor code simplifications

File: Executor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

Date    Who    What
19Jun1998 dl  Create public version

File: FIFOReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date       Who                What
11Jun1998  dl               Create public version
23Nov2001  dl               Replace main algorithm with fairer
version based on one by Alexander Terekhov
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/FIFOReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: TimeoutException.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
29Jun1998  dl               Create public version
4Aug1998   dl               Change to extend InterruptedException
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/TimeoutException.java
No license file was found, but licenses were detected in source scan.

/*
Converted from heat.cilk, which is
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*
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/taskDemo/Heat.java
No license file was found, but licenses were detected in source scan.

/*
File: PropertyChangeMulticaster.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

This class is based on Sun JDK java.beans.VetoableChangeSupport,
which is copyrighted by Sun. (It shares practically no code, but for
consistency, the documentation was lifted and adapted here.)

History:
Date   Who    What
14Mar1999 dl   first release
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/VetoableChangeMulticaster.java
No license file was found, but licenses were detected in source scan.

/*
File: LockedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

**History:**

<table>
<thead>
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<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>21Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

**Found in path(s):**

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LockedExecutor.java

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

/*

File: SynchronizedLong.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

**History:**

<table>
<thead>
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<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>19Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>15Apr2003</td>
<td>dl</td>
<td>Removed redundant &quot;synchronized&quot; for multiply()</td>
</tr>
<tr>
<td>23Jan04</td>
<td>dl</td>
<td>synchronize self-swap case for swap</td>
</tr>
</tbody>
</table>

*/

**Found in path(s):**

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedLong.java

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

/*

File: ReentrantLock.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

**History:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>replaced int counters with longs</td>
</tr>
</tbody>
</table>

*/

**Found in path(s):**

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
No license file was found, but licenses were detected in source scan.

/*
File: TimeoutSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date     Who     What
1Aug1998 dl  Create public version
*/

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

/*
File: FJTaskRunner.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date     Who     What
7Jan1999 dl  First public release
13Jan1999 dl  correct a stat counter update;
              ensure inactive status on run termination;
              misc minor cleaup
14Jan1999 dl  Use random starting point in scan;
              variable renamings.
18Jan1999 dl  Runloop allowed to die on task exception;
              remove useless timed join
22Jan1999 dl  Rework scan to allow use of priorities.
6Feb1999 dl  Documentation updates.
7Mar1999 dl  Add array-based coInvoke
31Mar1999 dl  Revise scan to remove need for NullTasks
27Apr1999 dl  Renamed
23oct1999 dl  Earlier detect of interrupt in scanWhileIdling
24nov1999 dl  Now works on JVMs that do not properly
              implement read-after-write of 2 volatiles.
*/
Found in path(s):
  * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunner.java
No license file was found, but licenses were detected in source scan.

/*
File: Takable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who      What
11Jun1998 dl        Create public version
*/

Found in path(s):
  * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/Takable.java
No license file was found, but licenses were detected in source scan.

/*
File: Slot.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who      What
11Jun1998 dl        Create public version
25aug1998 dl        added peek
*/

Found in path(s):
  * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/Slot.java
No license file was found, but licenses were detected in source scan.

/*
File: WaiterPreferenceSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
5Aug1998 dl    replaced int counters with longs

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaiterPreferenceSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: FutureResult.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
30Jun1998 dl    Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FutureResult.java
No license file was found, but licenses were detected in source scan.

/*
File: CopyOnWriteArrayList.java

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 ArrayList.java which carries the following copyright:

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* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.
History:
Date       Who                What
21Jun1998  dl               Create public version
9Oct1999   dl               faster equals
29Jun2001  dl               Serialization methods now private

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArrayList.java
No license file was found, but licenses were detected in source scan.

File: ThreadedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
21Jun1998  dl               Create public version
28Aug1998  dl               factored out ThreadFactoryUser

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadedExecutor.java
No license file was found, but licenses were detected in source scan.

File: WaitFreeQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
16Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs
17Nov2001  dl               Simplify given Bill Pugh's observation
    that counted pointers are unnecessary.
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitFreeQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: Mutex.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who    What
11Jun1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Mutex.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedPriorityQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who    What
16Jun1998 dl   Create public version
25aug1998 dl   added peek
29aug1998 dl   pulled heap mechanics into separate class
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedPriorityQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.420/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/BoundedChannel.java
No license file was found, but licenses were detected in source scan.

/*

File: SynchronizedShort.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>19Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>15Apr2003</td>
<td>dl</td>
<td>Removed redundant &quot;synchronized&quot; for multiply()</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.420/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedShort.java
No license file was found, but licenses were detected in source scan.

/*

File: ReentrantWriterPreferenceReadWriteLock.java

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History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>26aug1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>7sep2000</td>
<td>dl</td>
<td>Readers are now also reentrant</td>
</tr>
<tr>
<td>19jan2001</td>
<td>dl</td>
<td>Allow read-&gt;write upgrades if the only reader</td>
</tr>
<tr>
<td>10dec2002</td>
<td>dl</td>
<td>Throw IllegalStateException on extra release</td>
</tr>
</tbody>
</table>

*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/ReentrantWriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: Callable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
30Jun1998 dl    Create public version
5Jan1999  dl    Change Exception to Throwable in call signature
27Jan1999  dl    Undo last change
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/Callable.java
No license file was found, but licenses were detected in source scan.

/*
File: PrioritySemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/PrioritySemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableRef.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableRef.java
No license file was found, but licenses were detected in source scan.

File: LinkedQueue.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
25aug1998  dl               added peek
10dec1998  dl               added isEmpty
10oct1999  dl               lock on node object to ensure visibility
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LinkedQueue.java
No license file was found, but licenses were detected in source scan.

File: ConcurrentHashMap

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 HashMap.java and Hashtable.java which carries the following copyright:

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* it only in accordance with the terms of the license agreement
* you entered into with Sun.

History:
Date    Who    What
26nov2000 dl    Created, based on ConcurrentReaderHashMap
12jan2001 dl    public release
17nov2001 dl    Minor tunings
24oct2003 dl    Segment implements Serializable

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentHashMap.java
No license file was found, but licenses were detected in source scan.

/*/ File: BoundedBuffer.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
17Jul1998 dl    Simplified by eliminating wait counts
25aug1998 dl    added peek
5May1999 dl    replace % with conditional (slightly faster)

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/BoundedBuffer.java
No license file was found, but licenses were detected in source scan.

/*/ File: SyncSortedSet.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
1Aug1998 dl    Create public version
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedSet.java
No license file was found, but licenses were detected in source scan.

/*
File: Channel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who                What
11Jun1998 dl               Create public version
25aug1998 dl               added peek
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Channel.java
No license file was found, but licenses were detected in source scan.

/*
File: NullSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who                What
1Aug1998 dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/NullSync.java
No license file was found, but licenses were detected in source scan.

/*
File: QueuedSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

**History:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>replaced int counters with longs</td>
</tr>
<tr>
<td>24Aug1999</td>
<td>dl</td>
<td>release(n): screen arguments</td>
</tr>
</tbody>
</table>

Found in path(s):

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/QueuedSemaphore.java

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

/**

File: WaitableChar.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

**History:**

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>23Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

Found in path(s):

* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableChar.java

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

/**

File: SynchronizedByte.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

**History:**

<table>
<thead>
<tr>
<th>Date</th>
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</tr>
</thead>
<tbody>
<tr>
<td>19Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>15Apr2003</td>
<td>dl</td>
<td>Removed redundant &quot;synchronized&quot; for multiply()</td>
</tr>
</tbody>
</table>

*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedByte.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who         What
23Jun1998 dl    Create public version
13may2004 dl    Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/WaitableByte.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedLinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who         What
11Jun1998 dl    Create public version
17Jul1998 dl    Simplified by eliminating wait counts
25aug1998 dl    added peek
10oct1999 dl    lock on node object to ensure visibility
27jan2000 dl    setCapacity forces immediate permit reconcile
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/BoundedLinkedQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: SwingWorker.java
Originally written by Joseph Bowbeer and released into the public domain. This may be used for any purposes whatsoever without acknowledgment.

Originally part of jozart.swingutils. Adapted for util.concurrent by Joseph Bowbeer.

/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/SwingWorker.java
No license file was found, but licenses were detected in source scan.

/*

File: SynchronousChannel.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998  dl   Create public version
17Jul1998  dl   Disabled direct semaphore permit check
31Jul1998  dl   Replaced main algorithm with one with better scaling and fairness properties.
25aug1998  dl   added peek
24Nov2001  dl   Replaced main algorithm with faster one.

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronousChannel.java
No license file was found, but licenses were detected in source scan.

/*

File: ThreadFactory.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who   What
30Jun1998  dl   Create public version
/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactory.java
No license file was found, but licenses were detected in source scan.

*/

File: Puttable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Puttable.java
No license file was found, but licenses were detected in source scan.

/*

File: Sync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version
5Aug1998 dl   Added some convenient time constants

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Sync.java
No license file was found, but licenses were detected in source scan.

/*

File: WaitableDouble.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who       What
23Jun1998 dl   Create public version
*/

Found in path(s):
*/
File: DirectExecutor.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who       What
21Jun1998 dl   Create public version
*/

Found in path(s):
*/
File: Heap.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who       What
29Aug1998 dl   Refactored from BoundedPriorityQueue
08dec2001 dl   Null out slots of removed items
03feb2002 dl   Also null out in clear
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
File: ConditionVariable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who    What
11Jun1998  dl      Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CondVar.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncMap.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who    What
1Aug1998   dl      Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncMap.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableShort.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date Who What
23Jun1998 dl Create public version
13may2004 dl Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitableShort.java
No license file was found, but licenses were detected in source scan.

File: ReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ReadWriteLock.java
No license file was found, but licenses were detected in source scan.

File: SynchronizedFloat.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedFloat.java
No license file was found, but licenses were detected in source scan.
/*
File: FIFOSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/FIFOSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedInt.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedInt.java
No license file was found, but licenses were detected in source scan.

/*
File: QueuedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
21Jun1998 dl Create public version
28aug1998 dl    rely on ThreadFactoryUser, restart now public
4may1999 dl    removed redundant interrupt detect
7sep2000 dl     new shutdown methods
20may2004 dl    can shutdown even if thread not created yet
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/QueuedExecutor.java
No license file was found, but licenses were detected in source scan.

/* File: SyncSet.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
1Aug1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/SyncSet.java
No license file was found, but licenses were detected in source scan.

/* File: SynchronizedBoolean.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
19Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
    jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedBoolean.java
No license file was found, but licenses were detected in source scan.

/*
File: DefaultChannelCapacity.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/DefaultChannelCapacity.java
No license file was found, but licenses were detected in source scan.

/*

File: LinkedNode.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25may2000</td>
<td>dl</td>
<td>Change class access to public</td>
</tr>
<tr>
<td>26nov2001</td>
<td>dl</td>
<td>Added no-arg constructor, all public access.</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LinkedNode.java
No license file was found, but licenses were detected in source scan.

/*

File: ThreadFactoryUser.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>28aug1998</td>
<td>dl</td>
<td>refactored from Executor classes</td>
</tr>
</tbody>
</table>
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactoryUser.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableInt.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who  What
23Jun1998  dl   Create public version
13may2004  dl   Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableInt.java
No license file was found, but licenses were detected in source scan.

/*
File: CountDown.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who  What
11Jun1998  dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CountDown.java
No license file was found, but licenses were detected in source scan.

/*
File: WriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

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<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>replaced int counters with longs</td>
</tr>
<tr>
<td>25aug1998</td>
<td>dl</td>
<td>record writer thread</td>
</tr>
<tr>
<td>3May1999</td>
<td>dl</td>
<td>add notifications on interrupt/timeout</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: FJTaskRunnerGroup.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

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<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
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</thead>
<tbody>
<tr>
<td>7Jan1999</td>
<td>dl</td>
<td>First public release</td>
</tr>
<tr>
<td>12Jan1999</td>
<td>dl</td>
<td>made getActiveCount public; misc minor cleanup.</td>
</tr>
<tr>
<td>14Jan1999</td>
<td>dl</td>
<td>Added executeTask</td>
</tr>
<tr>
<td>20Jan1999</td>
<td>dl</td>
<td>Allow use of priorities; reformat stats</td>
</tr>
<tr>
<td>6Feb1999</td>
<td>dl</td>
<td>Lazy thread starts</td>
</tr>
<tr>
<td>27Apr1999</td>
<td>dl</td>
<td>Renamed</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunnerGroup.java
No license file was found, but licenses were detected in source scan.

version.
<li>All classes are released to the public domain and may be used

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/intro.html
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/package-summary.html
*/
/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/package.html
No license file was found, but licenses were detected in source scan.

/*
File: Latch.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who       What
11Jun1998 dl    Create public version
*/

Found in path(s):
*/
/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Latch.java
No license file was found, but licenses were detected in source scan.

/*
File: Barrier.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who       What
11Jun1998 dl    Create public version
*/

Found in path(s):
*/
/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Barrier.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedDouble.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
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<tbody>
<tr>
<td>19Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>15Apr2003</td>
<td>dl</td>
<td>Removed redundant &quot;synchronized&quot; for multiply()</td>
</tr>
</tbody>
</table>

SynchronizedDouble.java

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedDouble.java
No license file was found, but licenses were detected in source scan.

Fraction.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/Fraction.java
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ObservableSync.java

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Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ObservableSync.java
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File: ConcurrentReaderHashMap

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History:
Date    Who        What
28oct1999 dl  Created
14dec1999 dl  jmm snapshot
19apr2000 dl  use barrierLock
12jan2001 dl  public release
17nov2001 dl  Minor tunings
20may2002 dl  BarrierLock can now be serialized.
09dec2002 dl  Fix interference checks.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentReaderHashMap.java
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/*
File: SyncCollection.java

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History:
Date    Who        What
1Aug1998 dl  Create public version
*/
/*
File: BrokenBarrierException.java

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History:
  Date     Who    What
  29Jun1998 dl Create public version
*/

/*
File: WaitableFloat.java

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History:
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  23Jun1998 dl Create public version
*/

/*
File: SynchronizedChar.java

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*/
History:
Date   Who     What
19Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedChar.java
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/*
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History:
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11Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedRef.java
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History:
Date   Who     What
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*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/WaitableBoolean.java
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/*
File: WaitableBoolean.java

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*/

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* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/WaitableBoolean.java
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History:
Date   Who    What
30Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedVariable.java
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File: CyclicBarrier.java

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History:
Date   Who    What
11Jul1998 dl  Create public version
28Aug1998 dl  minor code simplification
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/CyclicBarrier.java
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consistency, the documentation was lifted and adapted here.)
History:
Date        Who        What
14Mar1999   dl         first release
*/

Found in path(s):
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*/

Found in path(s):
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/*
TimedCallable.java
1.1116 commons-dbcp 1.4

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1.1129 stax-ex 1.2

1.1130 pixman 0.32.6-3.el7

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_credential.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dup_status.c
lib/gssapi/mechglue/g_dup_credential.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_credential.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_realloc_buffer.c
lib/gssapi/mechglue/g_realloc_credential.c
lib/gssapi/mechglue/g_realloc_name.c
lib/gssapi/mechglue/g_realloc_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_credential.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mutexlock.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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3 * this.version.hashCode());

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* return this.name.hashCode() + (this.version == null ? 0

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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/common/SequentialAgendaGroupImpl.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/rule/ReturnValueRestriction.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/spi/RuleFlowGroup.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/reteoo/InitialFactImpl.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/base/ClassFieldReader.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/rule/Accumulate.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/rule/Collect.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/reteoo/ObjectSource.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/common/ScheduledAgendaItem.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/base/ClassFieldWriter.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/base/DroolsQuery.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/event/AgendaEventSupport.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/common/AbstractWorkingMemory.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/util/PrimitiveLongStack.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/common/AgendaItem.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/common/EqualityKeyComparator.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/base/BaseEvaluator.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/base/BaseEvaluator.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5.0.1-sources-jar/org/drools/reteoo/AlphaNode.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/reteoo/ExistsNode.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/reteoo/builder/BuildUtils.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/rule/AbstractCompositeConstraint.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/rule/impl/ActivationCancelledEventImpl.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/WorkingMemoryEventListener.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/audit/event/ObjectLogEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/AfterRuleRemovedEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/workflow/core/impl/NodeImpl.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/RuleFlowNodeTriggeredEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/DebugWorkingMemoryEventListener.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/BeforeRuleBaseLockedEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/audit/event/ActivationLogEventFilter.java
jar/org/drools/event/rule/impl/ActivationCreatedEventImpl.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/common/EventSupport.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/spi/Activation.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/conflict/TotalRecencyConflictResolver.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/AfterFunctionRemovedEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/workflow/core/node/MilestoneNode.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/workflow/instance/node/CompositeNodeInstance.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/process/core/datatype/impl/InstanceDataTypeFactory.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/rule/LogicTransformer.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/AfterActivationFiredEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/spi/BetaNodeFieldConstraint.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/reteoo/ObjectSink.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/audit/event/RuleBaseLogEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/audit/event/RuleBaseLogEvent.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/audit/WorkingMemoryFileLogger.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/workflow/instance/node/MilestoneNodeInstance.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/ActivationCancelledEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/rule/InvalidRulePackage.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/reteoo/LeftTupleSinkNode.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/audit/event/WorkingMemoryLogEventFilter.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/BeforeActivationFiredEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/process/core/validation/ProcessValidationError.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/util/asm/FieldAccessorMap.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/RuleFlowEventListener.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/RuleFlowCompletedEvent.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/rule/InvalidPatternException.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/conflict/SalienceConflictResolver.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/process/instance/node/JoinInstance.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/rule/RuleBaseEventManager.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/xml/Handler.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/extractors/BaseByteClassFieldWriter.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/spi/AgendaFilter.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/workflow/core/impl/ConstraintImpl.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/conflict/FifoConflictResolver.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/event/BeforeFunctionRemovedEvent.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/ruleflow/core/factory/EventNodeFactory.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/ruleflow/core/factory/JoinFactory.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/ruleflow/core/factory/ActionNodeFactory.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/ruleflow/core/factory/NodeFactory.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/ruleflow/core/factory/SubProcessNodeFactory.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/ruleflow/core/factory/RuleFlowProcessFactory.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/SoundslikeEvaluatorsDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/MatchesEvaluatorsDefinition.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/OverlapsEvaluatorDefinition.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/ComparableEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/CoincidesEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/EvaluatorCache.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/MetByEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/StartedByEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/BeforeEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/ComparableEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/CoincidesEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/EvaluatorCache.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/MetByEvaluatorDefinition.java
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* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-
jar/org/drools/base/evaluators/IncludesEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/SetEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/OverlappedByEvaluatorDefinition.java
* /opt/cola/permits/1003537492_1612308125.77/0/drools-core-5-0-1-sources-jar/org/drools/base/evaluators/StartsEvaluatorDefinition.java
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  jar/com/ctc/wstx/dtd/StructValidator.java
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/opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2.jar/com/ctc/wstx/dtd/DefaultAttrValue.java
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 */

Found in path(s):
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/WstxSAXParser.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/WstxSAXParserFactory.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/SAXProperty.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/SAXFeature.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/WrappedSaxException.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/WstxSAXParser.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/WstxSAXParserFactory.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/SAXProperty.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/SAXFeature.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
  jar/com/ctc/wstx/sax/WrappedSaxException.java

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jar/com/ctc/wstx/sw/AsciiXmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/io/WstxInputSource.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/Attribute.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/dtd/DTDValidator.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/TypedStreamWriter.java
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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/XmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/dtd/DTDEventListener.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/TypedStreamReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/dtd/MinimalDTDReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/BufferingXmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/InputElementStack.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/AttributeCollector.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/NsDefaultProvider.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/EncodingXmlWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/io/ISOLatinReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/BaseStreamWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/XmlWriterWrapper.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/BasicStreamReader.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/StreamScanner.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/Element.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/dtd/DTDSubsetImpl.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4.2.0-sources-2.jar/com/ctc/wstx/sw/XmlWriter.java

jar/com/ctc/wstx/io/ReaderBootstrapper.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
jar/com/ctc/wstx/dtd/FullDTDReader.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
jar/com/ctc/wstx/sw/BaseNsStreamWriter.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
jar/com/ctc/wstx/stax/WstxEventFactory.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
jar/com/ctc/wstx/io/WstxInputData.java
* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-
1.1142 geocode-glib 3.26.0
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[This is the first released version of the library GPL. It is
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1.1143 spring-security-config 4.2.9.RELEASE

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* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-jar/org/springframework/security/config/annotation/authentication/configuration/InitializeAuthenticationProviderBeanManagerConfigurer.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-jar/org/springframework/security/config/annotation/web/configurers/RememberMeConfigurer.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2
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jar/org/springframework/security/config/method/MethodConfigUtils.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
jar/org/springframework/security/config/http/WebConfigUtils.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
jar/org/springframework/security/config/http/LogoutBeanDefinitionParser.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
jar/org/springframework/security/config/http/HttpSecurityBeanDefinitionParser.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
jar/org/springframework/security/config/http/AuthenticationConfigBuilder.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
jar/org/springframework/security/config/http/CsrfBeanDefinitionParser.java

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  jar/org/springframework/security/config/debug/SecurityDebugBeanFactoryPostProcessor.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/annotation/web/socket/AbstractSecurityWebSocketMessageBrokerConfigurer.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/package-info.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/Elements.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/annotation/web/messaging/MessageSecurityMetadataSourceRegistry.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/annotation/web/configurers/CorsConfigurer.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/http/MatcherType.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/http/FilterInvocationSecurityMetadataSourceParser.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/ldap/LdapProviderBeanDefinitionParser.java
* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4-2-9-release-sources-2-
  jar/org/springframework/security/config/http/HeadersBeanDefinitionParser.java

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* /opt/cola/permits/1158685277_1619822322.27/0/spring-security-config-4.2.9-release-sources-2-jar/org/springframework/security/config/http/HandlerMappingIntrospectorFactoryBean.java
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1.1145 bcel 2.7.2

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/*

Sl: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct() + "\" + getImplementationLanguage() + "\" +
            getMajorVersionNum() + ",\" + getReleaseVersionNum() + "\" +
            ((getDevelopmentVersionNum() > 0) ?
            ("D" + getDevelopmentVersionNum()) : ("\" +
                getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 */

public static void main(String argv[])
{  
    System.out.println(getVersion());
}

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

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

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

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

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

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

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 */

package org.apache.xml.serializer;

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

public final class Version {

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " "
    + getMajorVersionNum() + "." + getReleaseVersionNum() + ".";
    +( (getDevelopmentVersionNum() > 0) ?
        ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

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

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

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

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

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

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (new String("@version.DEVELOPER@").length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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

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// Proprietary
/** The 'document-location()' id (Proprietary). */

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jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
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jar/org/apache/xalan/res/XSLTInfo.properties
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package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

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

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

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

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;
/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

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

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

public int getLineNumber() {
  return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
  return _parser.getQNameIgnoreDefaultNs(name);
}

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

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

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

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

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

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

    if (test == null) {  // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : 
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
    }
    else {
        QName name = (QName)test;
        boolean setPriority = false;

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

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

                predicates.add( 
                    new Predicate( 
                        new EqualityExpr(Operators.EQ, 
                            new NamespaceUriCall(namespace_uri), 
                            new LiteralExpr(uri))));
            }
        }

        // Priority is set by hand if no other predicates exist
        setPriority = (predicates.size() == 0);

        predicates.add( 
            new Predicate( 
                new EqualityExpr(Operators.EQ, 
                    new NamespaceUriCall(namespace_uri), 
                    new LiteralExpr(uri))));
    }
```
if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);
}

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

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

return result;

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

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

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

return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) : _xslt.registerElement(name);

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

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

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

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

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

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

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

non terminal SyntaxTreeNode TopLevel;

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

non terminal Object NodeTest, NameTest;

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

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

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

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

start with TopLevel;
TopLevel ::= PATTERN Pattern:pattern
    { : RESULT = pattern; : }

    | EXPRESSION Expr:expr
    { : RESULT = expr; : }

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

Pattern ::= LocationPathPattern:lpp
    { : RESULT = lpp; : }

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

LocationPathPattern ::= SLASH
    { : RESULT = new AbsolutePathPattern(null); : }

    | SLASH RelativePathPattern:rpp
    { : RESULT = new AbsolutePathPattern(rpp); : }

    | IdKeyPattern:ikp
    { : RESULT = ikp; : }

    | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    { : RESULT = new ParentPattern(ikp, rpp); : }

    | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(ikp, rpp); : }

    | DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(rpp); : }

    | RelativePathPattern:rpp
    { : RESULT = rpp; : }

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    { : RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
    : }

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

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

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

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

| ProcessingInstructionPattern:pip
{| : RESULT = pip; : |

| ProcessingInstructionPattern:pip Predicates:pp
{| : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{| : RESULT = parser.createStepPattern(axis.intValue(), nt, null); : |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
{| : RESULT = parser.createStepPattern(axis.intValue(), nt, pp); : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{| : RESULT = pip; // TODO: report error if axis is attribute : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp
{| : // TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : |}

NodeTestPattern ::= NameTestPattern:nt
NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

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

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

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

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

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

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

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

Predicates ::= Predicate:p
{: Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:}

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

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

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

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

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

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

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

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

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

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

RelationalExpr ::= AdditiveExpr:ae
  { : RESULT = ae; : }

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

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

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

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

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

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

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

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

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

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

UnaryExpr ::= UnionExpr:ue |
| : RESULT = ue; |

| MINUS UnaryExpr:ue |
| : RESULT = new UnaryOpExpr(ue); |

UnionExpr ::= PathExpr:pe |
| : RESULT = pe; |

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

PathExpr ::= LocationPath:lp |
| : RESULT = lp; |

| FilterExpr:fexp |
| : RESULT = fexp; |

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

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

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

| AbsoluteLocationPath:alp
{ : RESULT = alp; : };

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

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

| AbbreviatedRelativeLocationPath:arlp
{ : RESULT = arlp; : };

AbsoluteLocationPath ::= SLASH
{ : RESULT = new AbsoluteLocationPath(); : }

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

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

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

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

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

Step ::= NodeTest:ntest
  |
  NodeTest:ntest Predicates:pp
  |
  AxisSpecifier:axis NodeTest:ntest Predicates:pp
  |
  AxisSpecifier:axis NodeTest:ntest

: :
```
{ : RESULT = new Step(axis.intValue(),
                 parser.findNodeType(axis.intValue(), ntest),
                 null);
}

| AbbreviatedStep:abbrev
{ : RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
{ : RESULT = an; :}

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

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

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

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

| CHILD
{ : RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT
{ : RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF
{ : RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING
{ : RESULT = new Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING
{ : RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE
{ : RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT
{ : RESULT = new Integer(Axis.PARENT); :}

| PRECEDING
{ : RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING
{ : RESULT = new Integer(Axis.PRECEDINGSIBLING); : }

| SELF
{ : RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
{ : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }

| DDOT
{ : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
{ : RESULT = primary; : }

| PrimaryExpr:primary Predicates:pp
{ : RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{ : RESULT = vr; : }

| LPAREN Expr:ex RPAREN
{ : RESULT = ex; : }

| Literal:string
{:
/**
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');
if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);

| INT:num
{:
    long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
        RESULT = new RealExpr(value);
    }
else {
    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}
|
REAL::num
{: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall:fc
{: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
{: 
// An empty qname prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
        }
        else {
            RESULT = new UnresolvedRef(varName);
        }
    }

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

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{: 
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {

RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
{:  
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName( Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()  
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM  
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
:);

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

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

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

VariableName ::= QName:vname
| :
    RESULT = vname;
Argument ::= Expr:ex
{ : RESULT = ex; : }

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| DESCENDANT |
| :: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); : |

| DESCENDANTORSELF |
| :: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); : |

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

| FOLLOWINGSIBLING |
| :: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : |

| NAMESPACE |
| :: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); : |

| PARENT |
| :: RESULT = parser.getQNameIgnoreDefaultNs("parent"); : |

| PRECEDING |
| :: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); : |

| PRECEDINGSIBLING |
| :: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); : |

| SELF |
| :: RESULT = parser.getQNameIgnoreDefaultNs("self"); : |

| ID |
| :: RESULT = parser.getQNameIgnoreDefaultNs("id"); ; |

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

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 */

// if found, then throw a special exception in order to terminate

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

Found in path(s):
*/
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
* jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*/
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;
%%%%
cup
unicode
class XPathLexer
yyeof

{
int last;

void initialize() {
    last = -1;
}

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

/**
 * If symbol is not followed by `::` or `(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

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

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

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

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

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

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

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

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

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}%
%
%eofval{
    return newSymbol(sym.EOF);
%
%}

%yylexthrow{
    Exception
    %yylexthrow}

Letter={BaseChar}|[Ideographic]
NCName=(\{Letter\}|"_"|\{NCNameStartChar\})*

NCNameChar=\{Letter\}|\{Digit\}|"_"|\{CombiningChar\}|\{Extender\}|\{NCNameStartChar\}|\u00B7|\[\u0300-\u036F\]|\[\u203F-\u2040\]|\[\u0130-\u0136\]

NCNameStartChar=\[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u0377-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFD\] | \u005F |

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDCFF]

```c
/*
   *
   */
   { return disambiguateStar(); }

   /*
   */
   { return newSymbol(sym.SLASH); }

   /*
   */
   { return newSymbol(sym.PLUS); }

   /*
   */
   { return newSymbol(sym.MINUS); }

   /*
   */
   { return disambiguateOperator(sym.DIV); }

   /*
   */
   { return disambiguateOperator(sym.MOD); }

   /*
   */
   { return newSymbol(sym.DCOLON); }

   /*
   */
   { return newSymbol(sym.COMMA); }

   /*
   */
   { return newSymbol(sym.ATSIGN); }

   /*
   */
   { return newSymbol(sym.DDOT); }

   /*
   */
   { return newSymbol(sym.VBAR); }

   /*
   */
   { return newSymbol(sym.DOLLAR); }

   /*
   */
   { return newSymbol(sym.DSLASH); }

   /*
   */
   { return newSymbol(sym.EQ); }

   /*
   */
   { return newSymbol(sym.NE); }

   /*
   */
   { return newSymbol(sym.LT); }

   /*
   */
   { return newSymbol(sym.GT); }

   /*
   */
   { return newSymbol(sym.LE); }

   /*
   */
   { return newSymbol(sym.GE); }

   /*
   */
   { return disambiguateAxisOrFunction(sym.ID); }

   /*
   */
   { return disambiguateAxisOrFunction(sym.KEY); }

   /*
   */
   { return newSymbol(sym.TEXT); }

   /*
   */
   { return newSymbol(sym.NODE); }

   /*
   */
   { return newSymbol(sym.COMMENT); }

   /*
   */
   { return newSymbol(sym.PI); }

   /*
   */
   { return disambiguateOperator(sym.AND); }
```
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex

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*/
package org.apache.xalan.processor;

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

public class XSLProcessorVersion
{

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

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

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

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

public static final int VERSION = @version.VERSION@;

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

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

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
 */
public static final int DEVELOPMENT = 0;
* `<P>Semantics of the version string are identical to the Xerces project.</P>`
*/

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

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
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 */

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

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

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
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* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/ServletContextHandler.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/jmx/FilterMappingMBean.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/listener/ELContextCleaner.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/Invoker.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/package-info.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/listener/ELContextCleaner.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
  jar/org/eclipse/jetty/servlet/jmx/package-info.java
* /opt/ws_local/PERMITS_SQL/1025582869_1594246287.79/0/jetty-servlet-9-0-7-v20131107-sources-
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**1.1151 grub2 2.02-0.87.0.5.el7**

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1.1152 ha-api 3.1.8

1.1153 tomcat-dbcp 7.0.64
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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/tests/swresample.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `signature_lookup.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_kerndeint.c`
  - `vf_lensfun.c` (GPL version 3 or later)
  - `vf_mcteint.c`
  - `vf_mpdecimate.c`
  - `vf_nnedi.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_repeatfields.c`
  - `vf_sab.c`
  - `vf_signature.c`
  - `vf_smartblur.c`
  - `vf_spp.c`
  - `vf_stereo3d.c`
  - `vf_tinterlace.c`
  - `vf_upsp.c`
  - `vf_vaguedenoiser.c`
  - `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables.
You must also indicate any changes including additions and deletions to
those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

### External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

#### Compatible libraries

The following libraries are under GPL version 2:
- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:
- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

#### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these
libraries, even in circumstances that their license may be incompatible, pass
`--enable-nonfree` to configure. This will cause the resulting binary to be
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@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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Theodore Ts'o
23-June-2007

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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Gadi Oxman, August 1995

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1.1170 apacheds-constants 1.5.1

1.1171 spring-web-mvc 4.3.29.RELEASE
1.1171.1 Available under license:

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  jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionResolver.java
* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-
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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/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1-
jar/org/springframework/web/servlet/view/xslt/XsltView.java

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* /opt/cola/permits/1135840314_1613612859.34/0/spring-webmvc-4-3-29-release-sources-1.jar/org/springframework/web/servlet/mvc/method/annotation/CompletionStageReturnValueHandler.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.

Implementations may use this contract for example as part of a solution to provide data integrity, confidentiality, protection against cross-site request forgery (CSRF), and others or for other tasks such as automatically adding a hidden field to all forms and URLs.

View technologies that support this contract can obtain an instance to delegate to via `RequestContext#getRequestDataValueProcessor()`.

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* /opt/ws_local/PERMITS_SQL/1025582737_1594416836.14/0/jetty-server-9-0-7-v20131107-sources-jar/org/eclipse/jetty/server/HttpChannel.java
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Found in path(s):
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionalProxy.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/interceptor/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/interceptor/AbstractTransactionStatus.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1158685041_1619822603.09/0/spring-tx-4-1-7-release-sources-2-
1.1181 msg-simple 1.1

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1.1182 mesa 10.6.5-3.20150824.el7

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:
2. Redistributions in binary form must reproduce the following statement:

"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

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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 compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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.

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

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

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

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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
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Library" must include any data and utility programs needed for
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   analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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   analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 * @param emf EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * { @code createEntityManager} call (may be { @code null})
 * @param entityManagerInterfaces the interfaces to be implemented by the
 * EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
 */

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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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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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* $Id: SelectorListImpl.java,v 1.1 2000/08/07 01:16:21 plehegar Exp $
*/
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* /opt/cola/permits/1158685156_1619822721.3/0/vaadin-sass-compiler-0-9-12-sources-2.jar/com/vaadin/sass/internal/parser/SelectorListImpl.java
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 * $Id: LocatorImpl.java,v 1.2 2000/02/14 16:59:06 plehegar Exp $
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* /opt/cola/permits/1158685156_1619822721.3/0/vaadin-sass-compiler-0-9-12-sources-2.jar/com/vaadin/sass/internal/parser/LocatorImpl.java
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*$Id: ThrewedParseException.java,v 1.1 1999/06/09 15:21:33 plehegar Exp$
*/

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* /opt/cola/permits/1158685156_1619822721.3/0/vaadin-sass-compiler-0-9-12-sources-2-
jar/com/vaadin/sass/internal/parser/ThrownParseException.java
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1.1202 cxf-rt-bindings-xml 3.1.3

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jar/org/springframework/core/convert/support/ConversionServiceFactory.java

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* /opt/ws_local/PERMITS_SQL/1025582727_1594525880.42/0/mule-transport-quartz-3-6-1-sources-1-jar/org/mule/transport/quartz/config/JobConfig.java
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* /opt/ws_local/PERMITS_SQL/1025582727_1594525880.42/0/mule-transport-quartz-3-6-1-sources-1-jar/org/mule/transport/quartz/jobs/CustomJob.java
* /opt/ws_local/PERMITS_SQL/1025582727_1594525880.42/0/mule-transport-quartz-3-6-1-sources-1-jar/org/mule/transport/quartz/config/QuartzNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1025582727_1594525880.42/0/mule-transport-quartz-3-6-1-sources-1-
1.1207 image-magick 6.6.7-1
1.1207.1 Available under license :

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<a class="nav-link" href="../index.html">Home <span class="sr-only">(current)</span></a>
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* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-
jar/com/mongodb/BulkWriteUpsert.java
* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-
jar/com/mongodb/util/SimplePool.java

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  jar/com/mongodb/Deque.java
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// make a special exception for a command with only a single item added to it. It's allowed to exceed maximum
document size so that

Found in path(s):
* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-
jar/com/mongodb/BaseWriteCommandMessage.java
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/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 * *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 */
This method acts as bridge between array-based and collection-based APIs.

@return an array containing all of the elements in this deque

Found in path(s):

/opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2.jar/com/mongodb/ConcurrentLinkedDeque.java

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/opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2.jar/org/bson/util/AbstractCopyOnWriteMap.java

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* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-jar/com/mongodb/package.html
* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-jar/com/mongodb/types/package.html
* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-jar/com/mongodb/gridfs/package.html
* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-jar/org/bson/package.html
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/**
* from postgresql jcc driver:
* postgresql-jdbc-9.0-801.src

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* /opt/cola/permits/1158684923_1619822317.16/0/mongo-java-driver-2-12-1-sources-2-jar/org/bson/io/UTF8Encoding.java

1.1230 cglib-nodep 2.1_3

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1.1235 mx4j-remote 2.1.1
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Found in path(s):
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/ClientProxy.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/RMIRemoteNotificationServerHandler.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/ClientUnmarshaller.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/ClientExceptionCatcher.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/RMIHeartBeat.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/provider/iiop/ServerProvider.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/provider/RMIClientProvider.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/provider/RMIServerProvider.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-
jar/mx4j/remote/MX4JRemoteConstants.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/provider/rmi/ServerProvider.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/ClientInvoker.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/ProviderHelper.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/Marshaller.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/provider/iiop/ClientProvider.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/ConnectionNotificationEmitter.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/AbstractHeartBeat.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/RMICo增添ConnectionProxy.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/RMIMarshaller.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/RemoteNotificationClientHandler.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/rmi/RemoteNotificationClientHandler.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/RemoteNotificationServerHandler.java
* /opt/cola/permits/1114277717_1607460677.05/0/mx4j-remote-2-1-1-sources-1-jar/mx4j/remote/resolver/iiop/IIOPResolver.java
1.1236 commons-csv 1.0

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csrc/test/resources/CSVFileParser/testCSV85.csv
csrc/test/resources/CSVFileParser/testCSV85_default.txt
csrc/test/resources/CSVFileParser/testCSV85_ignoreEmpty.txt
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1.1237 polkit 0.112-26.el7
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*
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*
* NOTE: all the routines declared here have very specific requirements about when they are to be executed during the reading and writing of the source and destination files. See the comments in transupp.c, or see jpegtran.c for an example of correct usage.
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/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
  forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
  on each column. Direct algorithms are also available, but they are
  much more complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
  scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
  Japanese, but the algorithm is described in the Pennebaker & Mitchell
  JPEG textbook (see REFERENCES section in file README). The following code
  is based directly on figure 4-8 in P&M.
  * While an 8-point DCT cannot be done in less than 11 multiplies, it is
  * possible to arrange the computation so that many of the multiplies are
  * simple scalings of the final outputs. These multiplies can then be
  * folded into the multiplications or divisions by the JPEG quantization
  * table entries. The AA&N method leaves only 5 multiplies and 29 adds
  * to be done in the DCT itself.
  * The primary disadvantage of this method is that with fixed-point math,
  * accuracy is lost due to imprecise representation of the scaled
  * quantization values. The smaller the quantization table entry, the less
  * precise the scaled value, so this implementation does worse with high-
  * quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

*/

jdcoefct.c
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2002-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

*jchuff.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
  back up to the start of the current MCU. To do this, we copy state
  variables into local working storage, and update them back to the
  permanent JPEG objects only upon successful completion of an MCU.
* We do not support output suspension for the progressive JPEG mode, since
  the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/ *
 * jpeglib.h
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.
 /*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

 Found in path(s):
 * /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
 No license file was found, but licenses were detected in source scan.

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

 Found in path(s):
 * /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c
 No license file was found, but licenses were detected in source scan.
* jinclude.h
* 
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* 
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
* */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
 * jcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 * */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c
No license file was found, but licenses were detected in source scan.

/**
 * jcprepc.t
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcprepc.t
No license file was found, but licenses were detected in source scan.

/**
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/
/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapmed or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemansi.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile()
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
*/opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
*/opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding

* case.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
 ********************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
 * the ability to read GIF files has been removed from the IJG distribution. *
 * Sorry about that.
 ********************************************
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h
No license file was found, but licenses were detected in source scan.

/*
* jdarith.c
*
* Developed 1997-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy decoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression, that is, reading raw DCT coefficient arrays from an input JPEG file. The routines in jdapimin.c will also be needed by a transcoder.

*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c.jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).

* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
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** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

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* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
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/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
 * Also, this code will NOT work if struct fields are aligned on greater than
 * 2-byte boundaries.
 *
 * Based on code contributed by Ge' Weijers.
 */

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* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
This file contains routines to write output images in GIF format.

*************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.         *
* There is no trace of the LZW algorithm in this file.                   *
*************************************************************************

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume output to
an ordinary stdio stream.

This code is loosely based on ppmtogif from the PBMPLUS distribution
of Feb. 1991. That file contains the following copyright notice:
- Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloov.edu>.
- Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
- Copyright (C) 1989 by Jef Poskanzer.
- Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.

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

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/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

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

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

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

Block comments should be laid out thusly:

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

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

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

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

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

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as
#ifdef HAVE_PROTOTOYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD( void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD( void, term_entropy_encoder, (void));
};
Note the set of parentheses surrounding the parameter list.
A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

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

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

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

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

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

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

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

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

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.
Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/transupp.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligttenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* 
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* 
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/ *
* jaricom.c
 *
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* 
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
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/ *
* jcmarker.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is
 *
 * The downsampling algorithm used here is a simple average of the source
 * pixels covered by the output pixel. The hi-falutin sampling literature
 * refers to this as a "box filter". In general the characteristics of a box
 * filter are not very good, but for the specific cases we normally use (1:1
 * and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
 * nearly so bad. If you intend to use other sampling ratios, you'd be well
 * advised to improve this code.
 *
 * A simple input-smoothing capability is provided. This is mainly intended
 * for cleaning up color-dithered GIF input files (if you find it inadequate,
we suggest using an external filtering program such as pnmconvol). When enabled, each input pixel P is replaced by a weighted sum of itself and its eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF, where SF = (smoothing_factor / 1024).
Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.
/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.
/*
* ckconfig.c
 *
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.
/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * j dct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

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* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

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* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/ *
* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
*/opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
/*
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c

* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c

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

The Independent JPEG Group's JPEG software
==============================================

README for release 9c of 14-Jan-2018
=====================================

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(Previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

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

Please read at least the files install.txt and usage.txt. Some 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 encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

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. 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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.
These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

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, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

REFERENCES
==========

We 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 PDF file containing a revised version of Wallace's article is available at http://www.iijg.org/files/Wallace.JPEG.pdf. 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...


Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.
The TIFF 6.0 file format specification can be obtained by FTP from 
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 
http://www.ijg.org/files/. 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.

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

The "official" archive site for this software is www.ijg.org. 
The most recent released version can always be found there in 
directory "files". This particular version will be archived as 
http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible 

The JPEG FAQ (Frequently Asked Questions) article is a source of some 
general information about JPEG.
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 
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu 
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT 
algorithm article, only to find out that I had come to the same result 
in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the 
ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the 
Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the 
ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) 
meeting in Berlin, Germany.
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Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

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Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

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

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards' support only
application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet.

People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

**TO DO**

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification.
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view.
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor’s input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 *   * pool-based allocation and freeing of memory;
 *   * policy decisions about how to divide available memory among the
 *     virtual arrays;
 *   * control logic for swapping virtual arrays between main memory and
 *     backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */

Found in path(s):
 * /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs (“cjpeg” and “djpeg”) which use the library to convert JPEG
files to and from some other popular image formats. A third application
“jpegtran” uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
rjpgcom” and "wrjpgcom".
THE JPEG LIBRARY
================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG.c files to reference system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapimin.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapimin.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jparam.c Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcrepct.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jcsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jhuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jdctmgr.c IDCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c Standard error handling routines (application replaceable).
jmemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:
jmemnobs.c: "No backing store": assumes adequate virtual memory exists.
jmemansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an
installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special
system-dependent memory manager.

Non-C source code files:

jmemdosa.asm: 80x86 assembly code support for jmemdos.c; used only in
MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN
====================

Include files:

cdjpeg.h: Declarations shared by cjpeg/djpeg/jpegtran modules.
cerror.h: Additional error and trace message codes for cjpeg et al.
transupp.h: Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c: Main program for cjpeg.
djpeg.c: Main program for djpeg.
jpegtran.c: Main program for jpegtran.
cjpeg.c: Utility routines used by all three programs.
rdbmp.c: Code to read a colormap file for djpeg's "-map" switch.
rdsswitch.c: Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c: Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c: BMP file input.
rdgif.c: GIF file input (now just a stub).
rddpm.c: PPM/PGM file input.
rdrle.c: Utah RLE file input.
rdtarga.c: Targa file input.

Image file writer modules for djpeg:
wrbmp.c: BMP file output.
wrgif.c: GIF file output (a mere shadow of its former self).
wrppm.c: PPM/PGM file output.
wrre.c: Utah RLE file output.
wrtega.c: Targa file output.

RDJPGCW/WRJPGCW
================

C source code files:

djjpgcom.c: Stand-alone rdjpgcom application.
wjpgcom.c: Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

README: Master documentation file.
*.txt: Other documentation files.
*.1: Documentation in Unix man page format.
change.log: Version-to-version change highlights.
example.c: Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure: Unix shell script to perform automatic configuration.
cconfigure.ac: Source file for use with Autoconf to generate configure.
ltnmain.sh: Support scripts for configure (from GNU libtool).
cconfig, guess
config.sub
depcomp
missing
ar-lib
compile
install-sh: Install shell script for those Unix systems lacking one.
Makefile.in: Makefile input for configure.
Makefile.am: Source file for use with Automake to generate Makefile.in.
ckconfig.c: Program to generate jconfig.h on non-Unix systems.
jconfig.txt: Template for making jconfig.h by hand.
mak*.txt: Sample makefiles for particular systems.
jconfig.*Sample jconfig.h for particular systems.
libjpeg.mapScript to generate shared library with versioned symbols.
libjpeg.pc.inlibjpeg.pc pkg-config file input for configure.
aclocal.m4M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 *cjpeg [options] inputfile outputfile
 *cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 *cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
* /

Found in path(s):
*/opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcmainct.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

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

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

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

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

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

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

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

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

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

*** Portability issues ***

Portability is an essential requirement for the library. The key portability
issues that show up at the level of system architecture are:
1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

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

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

*** System overview ***

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

Looking more closely, the compressor library contains the following main elements:

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

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).
In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data — typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

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

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

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

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

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

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

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

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

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

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

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

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

*** Overall control structure ***

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

1. Master control for module selection and initialization. This has two responsibilities:
   
   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.
   
   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

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

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

   Each buffer controller sees the world as follows:

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

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

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

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

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

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

*** Compression object structure ***

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*** Decompression object structure ***

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

```
           |-- Entropy decoding
           |   |-- Coefficient controller --|
           |       |-- Dequantize, Inverse DCT
Main controller --|
       |   |-- Upsampling
```
As before, this diagram also represents typical control flow. The objects shown are:

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

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

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

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

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

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

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

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

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

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

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

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

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

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.
*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.
*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)" where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.
In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the
first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
"8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged
order, and may be true values or divided by the quantization coefficients,
depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept in natural order everywhere; the entropy
codecs zigzag or dezigzag the data as it is written or read. The blocks
contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable
quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks,
corresponding to block_size rows of samples. Otherwise the structure
is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKs, or a picture width of
4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.
In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.
We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

---

No license file was found, but licenses were detected in source scan.
/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
 *
 * Note that jmemmac.c depends on two features of MacOS that were first
 * introduced in System 7: FindFolder and the FSSpec-based calls.
 * If your application uses jmemmac.c and is run under System 6 or earlier,
 * and the jpeg library decides it needs a temporary file, it will abort,
 * printing error messages about requiring System 7. (If no temporary files
 * are created, it will run fine.)
 *
 * If you want to use jmemmac.c in an application that might be used with
 * System 6 or earlier, then you should remove dependencies on FindFolder
 * and the FSSpec calls. You will need to replace FindFolder with some
 * other mechanism for finding a place to put temporary files, and you
 * should replace the FSSpec calls with their HFS equivalents:
 *
 *      FSpDelete -> HDelete
 *      FSpGetFileInfo -> HGetFileInfo
 *      FSpCreate -> HCreate
 *      FSpOpenDF -> HOpen *** Note: not HOpenDF ***
 *      FSMakeFSSpec -> (fill in spec by hand.)
 *
 * (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
 * which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
 * ages-old problem of names starting with a period.)
 *
 * Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c

No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c
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/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
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/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */
Open Source Used In Cisco Vision Dynamic Signage Director 6.4 14658

/*

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#define void char */
/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
/* define const */

/*! Define this if an ordinary "char" type is unsigned. */
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/*! Define this if your system has an ANSI-conforming <stddef.h> file. */
#define HAVE_STDDEF_H

/*! Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/*! Define this if your system does not have an ANSI/SysV <string.h>, 
* but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/*! Define this if your system does not provide typedef size_t in any of the 
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in 
* <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/*! For 80x86 machines, you need to define NEED_FAR_POINTERS, 
* unless you are using a large-data memory model or 80386 flat-memory mode. 
* On less brain-damaged CPUs this symbol must not be defined. 
* (Defining this symbol causes large data structures to be referenced through 
* "far" pointers and to be allocated with a special version of malloc.) */
#undef NEED_FAR_POINTERS

/*! Define this if your linker needs global names to be unique in less 
* than the first 15 characters. */
#undef NEED_SHORT_EXTERNAL_NAMES

/*! Although a real ANSI C compiler can deal perfectly well with pointers to 
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI 
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, 
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you 
* actually get "missing structure definition" warnings or errors while
/* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#endif FALSE/* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif TRUE
#define TRUE 1
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>>>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */
#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
*-qttables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[N,...] Set quality ratings
* -qslots N[N,...] Set component quantization table selectors
* -sample HxV[HxV,...] Set component sampling factors
*/

Found in path(s):
*/opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

*/
*rjpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
*/opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

*/
*rdbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdin stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/ *
* jcdctmgr.c
*

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them). Read further if you run into snags or want to customize
the code for your system.

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BEFORE YOU START
================

Before installing the software you must unpack the distributed source code.
Since you are reading this file, you have probably already succeeded in this
task. However, there is a potential for error if you needed to convert the
files to the local standard text file format (for example, if you are on
MS-DOS you may have converted LF end-of-line to CR/LF). You must apply
such conversion to all the files EXCEPT those whose names begin with "test".
The test files contain binary data; if you change them in any way then the
self-test will give bad results.

Please check the last section of this file to see if there are hints for the
specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
-----------------------------

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other
substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines;
  if your machine matches one of the samples, just copy the right sample
  files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  ./configure --disable-shared
  If you want to build libjpeg only as a shared library, say
  ./configure --disable-static
  Configure uses GNU libtool to take care of system-dependent shared library
  building methods.

  * Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  ./configure CC='cc'
  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  ./configure CC='cc -Aa'
  to get HP's compiler to run in ANSI mode.

  * The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  ./configure CFLAGS='-O2'
  if you want to compile without debugging support.

  * Configure will set up the makefile so that "make install" will install files
into /usr/local/bin, /usr/local/man, etc. You can specify an installation
prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG
software's internal virtual memory mechanism. To do this, give the option
"--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
This is discussed in more detail under "Selecting a memory manager", below.
You probably don't need to worry about this on reasonably-sized Unix machines,
unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those
features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
-----------------------------------------------------------------------------

If you have one of these systems, you can just use the provided configuration
files:

Makefile jconfig file System and/or compiler

makefile.manx.jconfig.manx Amiga, Manx Aztec C
makefile.sas.jconfig.sas Amiga, SAS C
makeproj.mac.jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.stjconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc.jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj.jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat.jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc6jconfig.vc6 Windows, MS Visual C++
makefile.vs.jconfig.vs Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs.jconfig.vs Windows, Visual Studio 2017 (v15)
make*.v15
makefile.b32jconfig.vc32 Windows, Borland C++ 32-bit (bcc32)
makefile.mms.jconfig.mms Digital VMS, with MMS software
makefile.vms.jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or
whatever your system uses as the standard makefile name). For more info see
the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

--------------------------------------------------
First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
--------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
The simpler "two file" command line style is just

cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary
data fed through stdin/stdout; this is true for some MS-DOS compilers, for
example. If you're not on a Unix system, it's safest to assume you need
two-file style. (But if your compiler provides either the Posix-standard
dfopen() library routine or a Microsoft-compatible setmode() routine, you
can safely use the Unix command line style, by defining USE_FDOPEN or
USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
---------------------------

The IJG code is capable of working on images that are too big to fit in main
memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different
memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(),
which not all non-ANSI systems have. On some systems
tmpfile() may put the temporary file in a non-optimal
location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything
except a Unix machine, you'll need to configure the
select_file_name() routine appropriately; see the comments
near the head of jmemname.c. If you use this version, define
NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files
are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :) ) This will compile on
almost any system, but it assumes you have enough main memory
or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers.
See the system-specific notes about MS-DOS for more info.
IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in
jconfig.h, and include the assembly file jmemdosa.asm in the
programs. The supplied makefiles and jconfig files for
16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific
notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.
If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c: be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=======================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.
If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
=====================

As a quick test of functionality we've included a small sample image in several forms:

- `testorig.jpg`: Starting point for the djpeg tests.
- `testimg ppm`: The output of djpeg testorig.jpg.
- `testimg.bmp`: The output of djpeg -bmp -colors 256 testorig.jpg.
- `testimg.jpg`: The output of cjpeg testimg ppm.
- `testprog.jpg`: Progressive-mode equivalent of testorig.jpg.
- `testimgp.jpg`: The output of cjpeg -progressive -optimize testimg.ppm.

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t.
Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that...
temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
========================

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely
prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation. To do so:

1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming
data is automatically rescaled to \texttt{maxval=MAXJSAMPLE} as appropriate for the \texttt{cjpeg} bit depth.

The \texttt{PPM} writer (\texttt{wrppm.c}) will normally write 2-byte binary \texttt{PPM} or \texttt{PGM} format, \texttt{maxval=MAXJSAMPLE}, when compiled with \texttt{BITS_IN_JSAMPLE>8}. Since this format is not yet widely supported, you can disable it by compiling \texttt{wrppm.c} with \texttt{PPM\_NORAWWORD} defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample \texttt{PPM} or \texttt{PGM} file. (Yes, this means still another copy of \texttt{djjpeg} to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new \texttt{PBMPPLUS} release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, \texttt{cjpeg} uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the \texttt{xxx\_SUPPORTED} \#defines in \texttt{jconfig.h} and \texttt{jmorcfg.h}. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove \texttt{ISLOW} or \texttt{IFAST}, be sure to redefine \texttt{JDCT\_DEFAULT} or \texttt{JDCT\_FASTEST} to a supported method, by adding a \#define in \texttt{jconfig.h}.)

OPTIMIZATION
=============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values
are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS

=================================
We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

```
CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o
```

Also add a new line `.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the `jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjjpeg.st, maktpjpeg.st, and makljpeg.st to cjpegl.prj, djpegl.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to
adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading
"#pragma novector" just before the loop
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say
configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler
delivered with a minimum HP-UX system, then you must use makefile.unix
(and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior
to A.08.07. If you get complaints about "not a typedef name", you'll have to
use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to
provide a Unix-style command line interface. You can use this interface on
the Mac by means of the ccommand() library routine provided by Metrowerks
CodeWarrior or Think C. This is only appropriate for testing the library,
however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
JPEG under System 7 and later. This only illustrates how to use the
compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and
the library's API has changed considerably since then. Still it may be of
some help, particularly as a guide to compiling the IJG code under Think C.
Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu
or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses
NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific
implementation of jpeg_mem_available(). It also creates temporary files that
follow Mac conventions. (That part of the code relies on System-7-or-later OS
functions. See the comments in jmemmac.c if you need to run it on System 6.)
NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger
than available memory. If you use any memory manager back end other than
jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and
"DisposePtr", because Mac C libraries often have peculiar implementations of
malloc/free. (For instance, free() may not return the freed space to the
Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c
already clumps space requests.)
Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:
MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC Chunk to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode.
(USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors.
"Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$<RF> : makefile". Otherwise the make will fail because it doesn't know how to create "makefile".
Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.
Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)
When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "\%s\n", buffer);
```

with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.)

jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.
Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer, that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type)		type _far _pascal _loadds _export
#define EXTERN(type)		extern type _far _pascal _loadds
#define METHODDEF(type)		static type _far _pascal
#define JMETHOD(type,methodname,arglist)  
	type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```c
#define GLOBAL(type)__declspec(dllexport) type
#define EXTERN(type)__declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.
Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```c
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

- `-Ot -Og`
- `-Ot -Op`
- `-Ot -Om`

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)
To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   This will move jconfig vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-v15
   This will move jconfig vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:
Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying

`./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
/*
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djepg [options]  inputfile outputfile
 * djepg [options]  [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djepg [options]  -outfile outputfile  inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c

No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains upsampling routines.
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
=====================

Data formats
----------

Before diving into procedural details, it is helpful to understand the
image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each
pixel having the same number of "component" or "sample" values (color
channels). You must specify how many components there are and the colorspace
interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component,
that is, colormap[i][j] is the value of the i’th color component for pixel
value (map index) j. Note that since the colormap indexes are stored in
JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE
(ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has
a bunch of subsidiary structures which are allocated via malloc(), but the
application doesn't control those directly.) This struct can be just a local
variable in the calling routine, if a single routine is going to execute the
whole JPEG compression sequence. Otherwise it can be static or allocated
from malloc().

You will also need a structure representing a JPEG error handler. The part
of this that the library cares about is a "struct jpeg_error_mgr". If you
are providing your own error handler, you'll typically want to embed the
jpeg_error_mgr struct in a larger structure; this is discussed later under
"Error handling". For now we'll assume you are just using the default error
handler. The default error handler will print JPEG error/warning messages
on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into
the JPEG object's "err" field, and then call jpeg_create_compress() to
initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);

jpeg_create_compress allocates a small amount of memory, so it could fail
if you are out of memory. In that case it will exit via the error handler;
that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a
"data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- **image_width**: Width of image, in pixels
- **image_height**: Height of image, in pixels
- **input_components**: Number of color channels (samples per pixel)
- **in_color_space**: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and **input_components** is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The **in_color_space** field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all
these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
  cinfo.image_width = Width; /* image width and height, in pixels */
  cinfo.image_height = Height;
  cinfo.input_components = 3; /* # of color components per pixel */
  cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

  jpeg_set_defaults(&cinfo);
  /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
  jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up
Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else’s, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library’s virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1];/* pointer to a single row */
int row_stride;/* physical row width in buffer */

row_stride = image_width * 3;/* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the
last bufferload of data is written to the data destination. 
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:
jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
2. Specify the source of the compressed data (e.g., a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to
consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while
to complete. With a single-scan (non progressive) JPEG file and default
decompression parameters, this will not happen; jpeg_start_decompress() will
return quickly.

After this call, the final output image dimensions, including any requested
scaling, are available in the JPEG object; so is the selected colormap, if
colormapped output has been requested. Useful fields include

output_width	image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it
equals out_color_components. It is the number of JSAMPLE values that will be
emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your
output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate
data buffers (as djpeg does), then the manager's protocol requires that you
request large buffers *before* calling jpeg_start_decompress(). This is a
little tricky since the output_XXX fields are not normally valid then. You
can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines()
one or more times. At each call, you pass in the maximum number of scanlines
to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines
actually read. The format of the returned data is discussed under "Data
formats", above. Don't forget that grayscale and color JPEGs will return
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write
out the image in bottom-to-top order, you can use the JPEG library's virtual
array mechanism to invert the data efficiently. Examples of this can be
found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far
in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like 
"while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:
jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
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Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most
critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
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Compression parameter selection
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This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorsapce(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.
unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea.
to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------
Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

- **image_width** (JDIMENSION): Width and height of image
- **image_height** (JDIMENSION): Height of image
- **num_components** (int): Number of color components
- **jpeg_color_space** (J_COLOR_SPACE): Color space of image
- **saw_JFIF_marker** (boolean): TRUE if a JFIF APP0 marker was seen
- **JFIF_major_version** (UINT8): Version information from JFIF marker
- **JFIF_minor_version** (UINT8): Version information from JFIF marker
- **density_unit** (UINT8): Resolution data from JFIF marker
- **X_density** (UINT16): Resolution data from JFIF marker
- **Y_density** (UINT16): Resolution data from JFIF marker
- **saw_Adobe_marker** (boolean): TRUE if an Adobe APP14 marker was seen
- **Adobe_transform** (UINT8): Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- **out_color_space** (J_COLOR_SPACE): Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.

The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.
unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]
JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting

in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.

You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space.

jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.

jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you’d expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot “fix” this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
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When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor field. This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.
The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```c
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

```c
init_source (j_decompress_ptr cinfo)
```

Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

```c
fill_input_buffer (j_decompress_ptr cinfo)
```

This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

```c
skip_input_data (j_decompress_ptr cinfo, long num_bytes)
```

Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

```c
resync_to_restart (j_decompress_ptr cinfo, int desired)
```
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmaker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you “bite the bullet” and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted.

The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However,
this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new
buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
--------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits
to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired.
This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
   adjust output decompression parameters if required
   jpeg_start_output(); /* start a new output pass */
   for (all scanlines in image) {
      jpeg_read_scanlines()
      display scanlines
   }
   jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (!jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.
After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:  
 JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)  
 JPEG_REACHED_EOI: reached the EOI marker (end of image)  
 JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data  
 JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan  
 JPEG_SUSPENDED: suspended before completing any of the above  
 (JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:  
* You can limit buildup of unprocessed data in your input buffer.  
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the...
When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output().

The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part.

Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up
with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically
one would use ordered dither for initial passes, then switch to
Floyd-Steinberg dither for the final pass. Caution: changing dither mode
can cause more memory to be allocated by the library. Although the amount
of memory involved is not large (a scanline or so), it may cause the
initial max_memory_to_use specification to be exceeded, which in the worst
case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output().
This setting is relevant only when decoding a progressive JPEG image.
During the first DC-only scan, block smoothing provides a very "fuzzy" look
instead of the very "blocky" look seen without it; which is better seems a
matter of personal taste. But block smoothing is nearly always a win
during later stages, especially when decoding a successive-approximation
image: smoothing helps to hide the slight blockiness that otherwise shows
up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
You *cannot* change between full-color and quantized output (because that
would alter the required I/O buffer sizes), but you can change which
quantization method is used.

When generating color-quantized output, changing quantization method is a
very useful way of switching between high-speed and high-quality display.
The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of
two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is
   probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quantFixed color cube colormap
enable_external_quantExternally-supplied colormap
enable_2pass_quantTwo-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory...
manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
--------------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are
abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer’s responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you’ll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL*/
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL*/
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
```
huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {

    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.)

Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module.

(If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.)
If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn’t flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you’d need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don’t recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before
all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.
To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as cinfo->comp_info[i].width_in_blocks*block_size samples per row cinfo->comp_info[i].height_in_blocks*block_size rows in image after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is

\[
cinfo->comp_info[0].h_samp_factor = 2 \text{ for Y} \\
cinfo->comp_info[0].v_samp_factor = 2 \\
cinfo->comp_info[1].h_samp_factor = 1 \text{ for Cb} \\
cinfo->comp_info[1].v_samp_factor = 1 \\
cinfo->comp_info[2].h_samp_factor = 1 \text{ for Cr} \\
cinfo->comp_info[2].v_samp_factor = 1
\]

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn’t matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.
Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

-----------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-
To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppressTables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

--

total_passes

ignoring the fact that the passes may not be equal amounts of work.
When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-----------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.
If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG
file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a
128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The “fixed-size” data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.
(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
-------------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the
library to be less portable than is claimed here, we'd appreciate hearing
about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of
the popular system include file setups, and some not-so-popular ones too.
See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As
distributed, we make the assumptions that

char	is at least 8 bits wide
short	is at least 16 bits wide
int	is at least 16 bits wide
long	is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will
work fine, although memory may be used inefficiently if char is much larger
than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain
int abound in the code.

char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
caracters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.
Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt
No license file was found, but licenses were detected in source scan.

jcomapi.c
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/cola/permits/1115937287_1611178886.03/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c

1.1240 mdadm 3.3.2-7.el7

1.1240.1 Available under license:

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Author: Carlos Quiroz (tibu@users.sourceforge.net)
Revision: 1.2

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* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management-3-6-1-sources-jar/org/mule/module/management/mbean/MuleService.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management-3-6-1-sources-jar/org/mule/module/management/mbean/MBeanServerFactory.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management-3-6-1-sources-jar/org/mule/module/management/mbean/EndpointServiceMBean.java
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* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management-3-6-1-sources-jar/org/mule/module/management/support/AutoDiscoveryJmxSupportFactory.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management-3-6-1-sources-jar/org/mule/module/management/support/AbstractJmxSupport.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/support/JmxModernSupport.java

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* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/support/JmxLegacySupport.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/RmiRegistryAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/Mx4jAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/config/ManagementNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/FlowConstructService.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/StatisticsServiceMBean.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/FlowConstructStats.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/MuleServiceMBean.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/Log4jAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/AbstractJmxAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/support/JmxSupportFactory.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/JmxDomainAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/RouterStatsMBean.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/YourKitProfilerService.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/YourKitProfilerServiceMBean.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/JmxApplicationAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/JmxAgentConfigurer.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/YourKitProfilerService.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/YourKitProfilerServiceMBean.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/FixedHostRmiClientSocketFactory.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/RouterStats.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/ConnectorService.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/ConnectorService.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/YourKitProfilerAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/agent/YourKitProfilerAgent.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/config/JmxAgentDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1025582764_1594411582.56/0/mule-module-management/3-6-1-sources-jar/org/mule/module/management/mbean/ServiceStats.java
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**1.1244 openjdk-jre 1.8.0u251**

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JUnit

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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   in the event an application does not supply such function or
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   its purpose remains meaningful.

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   a purpose that is entirely well-defined independent of the
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   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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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
1.1256 libjpeg 1.2.90-8.el7

1.1256.1 Available under license:

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libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
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/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
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 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcinit.c

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/*
 * jdmerge.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 * R = Y + K1 * Cr
 * G = Y + K2 * Cb + K3 * Cr
 * B = Y + K4 * Cb
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.

* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)

授予在路径中:
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmerge.c

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/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

授予在路径中:
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcapistd.c

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/*
 * jsimd.h
 *
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 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jsimd

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/*
 * jsimd_arm.c
 *
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 *
 * Based on the x86 SIMD extension for IJG JPEG library,
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 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on
 * ARM architecture.
 *
 * Based on the stubs from 'jsimd_none.c'
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

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/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jaricom.c
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 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cderror.h
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 * cdjpeg.h
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 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
/*
/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmarker.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmarker.asm

No license file was found, but licenses were detected in source scan.

/ *
* jdmarker.c
*

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmarker.c

No license file was found, but licenses were detected in source scan.

/ *
* jsimd_x86_64.c
*

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
This file contains the interface between the "normal" portions of the library and the SIMD implementations when running on a x86_64 architecture.

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:
- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

======================
Installation Directory
This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[{-gcc}[64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
  real  0m0.392s
  user  0m0.074s
  sys   0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
  real  0m0.109s
  user  0m0.029s
  sys   0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set
Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

Colorsace Extensions

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

JCS_EXT_RGB   /* red/green/blue */
JCS_EXT_RGBX  /* red/green/blue/x */
JCS_EXT_BGR   /* blue/green/red */
JCS_EXT_BGRX  /* blue/green/red/x */
JCS_EXT_XBGR  /* x/blue/green/red */
JCS_EXT_XRGB  /* x/red/green/blue */
JCS_EXT_RGBA  /* red/green/blue/alpha */
JCS_EXT_BGRA  /* blue/green/red/alpha */
JCS_EXT_ABGR  /* alpha/blue/green/red */
JCS_EXT_ARGB  /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space
(decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)
By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren’t.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when
emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block
sizes other than 8x8. Providing support for this new format would be
feasible (particularly without full acceleration.) However, until/unless
the format becomes either an official industry standard or, at minimum, an
accepted solution in the community, we are hesitant to implement it, as
there is no sense of whether or how it might change in the future. It is
our belief that SmartScale has not demonstrated sufficient usefulness as a
lossless format nor as a means of quality enhancement, and thus, our primary
interest in providing this feature would be as a means of supporting
additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not
supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure
(color_transform), thus making the ABI backward incompatible with that of
libjpeg v8. This new field was introduced solely for the purpose of supporting
lossless SmartScale encoding. Further, there was actually no reason to extend
the API in this manner, as the color transform could have just as easily been
activated by way of a new JPEG colorspace constant, thus preserving backward
ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not
generally accomplish anything that can't already be accomplished better with
existing, standard lossless formats. Thus, at this time, it is our belief that
there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====================================  
In-Memory Source/Destination Managers  
=====================================  

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************  
**     Mathematical Compatibility  
*******************************************************************************  

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 14870
The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/README-turbo.txt
  No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jmemsys.h
  No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMLPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided “as is” without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90 jdmainct.c
No license file was found, but licenses were detected in source scan.
ARCHIVE LOCATIONS Where to find newer versions of this software.

FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some 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 encoding, decoding, and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

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. 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 "rdjpegcom" and "wrjpegcom", 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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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==============

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documentation must state that "this software is based in part on the work of
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full responsibility for any undesirable consequences; the authors accept
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These conditions apply to any software derived from or based on the IJG code,
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Permission is NOT granted for the use of any IJG author's name or company name
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We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

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,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.
We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES
==========

We 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 http://www.ijg.org/files/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 does not specify all details of an interchangeable file.
format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.

A PostScript version of the JFIF document is available at http://www.iijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.iijg.org/files/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 http://www.iijg.org/files/. 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.

ARCHIVE LOCATIONS
=================

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsr8d.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original
reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatasrc-tj.c
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/*
 * jedctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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* 
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
* */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 * 
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jcparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 * */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY:  SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

---

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 14880
This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
- A "component" means a color channel, e.g., Red or Luminance.
- A "sample" is a single component value (i.e., one number in the image data).
- A "coefficient" is a frequency coefficient (a DCT transform output number).
- A "block" is an 8x8 group of samples or coefficients.
- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
- A subroutine library for JPEG compression and decompression.
- cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about
what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and
"int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
   [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsamplesd data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".
We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecing through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***
We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.
   The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data
            |      |      |
            ------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
  |-- Colorspace conversion
    |-- Preprocessing controller --|--
    |                             |-- Downsample
    | Main controller --|--
    |                   |-- Forward DCT, quantize
    |                     |-- Coefficient controller --|--
    |                     |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.
* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
    |-- Coefficient controller -->
|    |   |-- Dequantize, Inverse DCT
Main controller -->
    |   |-- Upsampling
    |-- Postprocessing controller --> |-- Colorspace conversion
    |   |-- Color quantization
    |   |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data.
This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.
* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only
if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE
values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be \( \geq 0 \). This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

\[
\text{GETJSAMPLE(image[colorcomponent][row][col])}
\]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of \((# \text{ of color components}) \times \text{image width})\) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend
Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF;  // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2];  // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;  // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY;  // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE;  // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).

We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would
like to have control return from the library at buffer overflow/underrun, and
then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we
recommend that the application "bite the bullet" and develop real multitasking
capability.) The libjpeg.txt file goes into more detail about the usage and
limitations of this capability; here we address the implications for library
structure.

The essence of the problem is that the entropy codec (coder or decoder) must
be prepared to stop at arbitrary times. In turn, the controllers that call
the entropy codec must be able to stop before having produced or consumed all
the data that they normally would handle in one call. That part is reasonably
straightforward: we make the controller call interfaces include "progress
counters" which indicate the number of data chunks successfully processed, and
we require callers to test the counter rather than just assume all of the data
was processed.

Rather than trying to restart at an arbitrary point, the current Huffman
codecs are designed to restart at the beginning of the current MCU after a
suspension due to buffer overflow/underrun. At the start of each call, the
codec's internal state is loaded from permanent storage (in the JPEG object
structures) into local variables. On successful completion of the MCU, the
permanent state is updated. (This copying is not very expensive, and may even
lead to *improved* performance if the local variables can be registerized.)
If a suspension occurs, the codec simply returns without updating the state,
thus effectively reverting to the start of the MCU. Note that this implies
leaving some data unprocessed in the source/destination buffer (ie, the
compressed partial MCU). The data source/destination module interfaces are
specified so as to make this possible. This also implies that the data buffer
must be large enough to hold a worst-case compressed MCU; a couple thousand
bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman
decoder has to be able to undo assignments of newly nonzero coefficients if it
suspends before the MCU is complete, since decoding requires distinguishing
previously-zero and previously-nonzero coefficients. This is a bit tedious
but probably won't have much effect on performance. Other variants of Huffman
decoding need not worry about this, since they will just store the same values
again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its
modifiable state is quite large and couldn't be copied cheaply. Instead it
would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary
point. It does so by backing up to the start of the marker parameter segment,
so the data buffer must be big enough to hold the largest marker of interest.
Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library’s memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers,
   *
small objects by NEAR pointers.

* Pool allocation heuristics may differ for large and small objects.
Note that individual "large" objects cannot exceed the size allowed by
 type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs
 (typically large enough for the entire image being processed). The
 memory manager provides stripwise access to these arrays. On machines
 without virtual memory, the rest of the array may be swapped out to a
 temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large
 objects for the data proper and small objects for the row pointers. For
 convenience and speed, the memory manager provides single routines to create
 these structures. Similarly, virtual arrays include a small control block
 and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image
 lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is
 not very useful since a virtual array's raison d'etre is to store data for
 multiple passes through the image.) We also expect that only "small" objects
 will be given permanent lifespan, though this restriction is not required by
 the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by
 making the in-memory buffers for virtual arrays be as large as possible.
 (For small images, the buffers might fit entirely in memory, so blind
 swapping would be very wasteful.) The memory manager will adjust the height
 of the buffers to fit within a prespecified maximum memory usage. In order
 to do this in a reasonably optimal fashion, the manager needs to allocate all
 of the virtual arrays at once. Therefore, there isn't a one-step allocation
 routine for virtual arrays; instead, there is a "request" routine that simply
 allocates the control block, and a "realize" routine (called just once) that
 determines space allocation and creates all of the actual buffers. The
 realize routine must allow for space occupied by non-virtual large objects.
 (We don't bother to factor in the space needed for small objects, on the
 grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
 with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan)
   during the initial setup phase, i.e., in their jinit_*** routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
   allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available
   for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that
 the total space used for small objects will be small enough to be negligible.
in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)
The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.050/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive- YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/* * rdbmp.c *

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomIQUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jdcoext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomIQUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdcoext.c
No license file was found, but licenses were detected in source scan.

/*
* jcprept.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/
Found in path(s):
/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

Found in path(s):
/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* 
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Intl. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* 
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
* 
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
* 
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
  cjpeg [options] -outfile outfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

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 * 2. Altered source versions must be plainly marked as such, and must not be
 * 3. This notice may not be removed or altered from any source distribution.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *

* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
/ opt/ cola/ permits/ 1126574253_ 1611721154.05/ 0/ libjpeg- turbo- 1.2.90- 8.el7. src. rpm- cosi- expand- archive-
YsomiqUL/ libjpeg- turbo- 1.2.90. tar. gz- cosi- expand- archive- LIPI8tPYZ/ libjpeg- turbo- 1.2.90/jerror. h

No license file was found, but licenses were detected in source scan.

%ifdef x86_64
%define __lib lib64
%else
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#-->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline
JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is
generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its
Highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. Libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

Libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

```
#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
rm docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}
ln -fs /usr/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/%{defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT/%{defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -rf $RPM_BUILD_ROOT
```
% files
% defattr(-,root,root)
% dir %{_defaultdocdir}/%{name}-%{version}/*
% dir /opt/%{name}/
% dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
% dir /opt/%{name}/%{__lib}
% ifarch x86_64
% else
/opt/%{name}/lib32
% endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so
/opt/%{name}/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so
/usr/%{__lib}/libturbojpeg.a
/usr/include/turbojpeg.h
% dir /opt/%{name}/include
/opt/%{name}/include/jconfig.h
/opt/%{name}/include/jerror.h
/opt/%{name}/include/jmorecfg.h
/opt/%{name}/include/jpeglib.h
/opt/%{name}/include/turbojpeg.h
% dir /opt/%{name}/man
% dir /opt/%{name}/man/man1
/opt/%{name}/man/man1/cjpeg.1*
/opt/%{name}/man/man1/djpeg.1*
/opt/%{name}/man/man1/jpegtran.1*
/opt/%{name}/man/man1/rdjpgcom.1*
/opt/%{name}/man/man1/wrjpgcom.1*
@JAVA_RPM_CONTENTS_1@
@JAVA_RPM_CONTENTS_2@
%changelog

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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;   in a product, an acknowledgment in the product documentation would be
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;
; 2. Altered source versions must be plainly marked as such, and must not be
;   misrepresented as being the original software.
;
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

; ==========================================================================
; System-dependent configurations

%ifdef WIN32; ---(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 14909
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)---------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)---------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -felf[64] -DELF ...)---------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_	; ELF supports PIC
%define EXTN(name) name; foo() -> foo
%elifdef AOUT; ----(nasm -faoutb/aout -DAOUT ...)--
 ; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
 ; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

 ; -- segment definition --
 ;
%define SEG_TEXT  .text
%define SEG_CONST .data

 ; To make the code position-independent, append -DPIC to the commandline
 ;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--
 ; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

 ; -- segment definition --
 ;
%define SEG_TEXT  .text  ;align=16 ; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

 ; The generation of position-independent code (PIC) is the default on Darwin.
 ;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

 ; -- segment definition --
 ;
%define SEG_TEXT  .text
%define SEG_CONST .data

%endif; ----------------------------------------------
%define POINTER_BIT  DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT         dword ; signed integer type
%define SIZEOF_INT  SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT     DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32        dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT    DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD      qword ; int64  (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT  QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD     ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD  2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT     8 ; CHAR_BIT in C
%define WORD_BIT     16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT    32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT    64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT    128 ; sizeof(OWORD)*BYTE_BIT

; -----------------------------------------------------------------------------
;  External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name ; foo() -> _foo
%endif

; -----------------------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx resister.
call %geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%geteip:
movecx, POINTER [esp]
ret
%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifidn %1,ebx (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:
%else; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:mov%1, ecx
%endif; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_----------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
externGOT_SYMBOL
call %geteip
add %1, GOT_SYMBOL + $$ $wrt gotpc
jmpshort %done
%geteip:
mov %1, POINTER [esp]
ret
%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push %1
%endmacro
%imacro poppic1.nolist
pop %1
%endmacro
%imacro movpic2.nolist
mov %1, %2
%endmacro

%else; !PIC ------------------------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC -----------------------------------------

; ---------------------------------------------------------------------
; Align the next instruction on \{2,4,8,16,...\}-byte boundary.
; ".balign n,,m\" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  ($$-(b)) & ((n)-1)

%imacro alignx 1-2.nolist 0xFFFF
%%bs:
times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) 
db 0x90                               ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 
db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \ 
  db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]

times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \ 
  db 0x8D,0xAD,0x00,0x00,0x00,0x00      ; lea ebp,[ebp+0x00000000]

times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \ 
  db 0x8D,0x6C,0x25,0x00                ; lea ebp,[ebp+0x00]

times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \ 
  db 0x8D,0x6D,0x00                     ; lea ebp,[ebp+0x00]

times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \ 
  db 0x8B,0xED                          ; mov ebp,ebp

times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \ 
  db 0x90                               ; nop

%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD

; Defines picked up from the C headers
;
%include "jsimdfg.inc"

; --------------------------------------------------------------------------
; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C)1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/*
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 *
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* - Neither the name of the libjpeg-turbo Project nor the names of its
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*
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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjunittest.c
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/turbojpeg.c
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjbench.c
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/turbojpeg.h
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/TJBench.java
No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/
This file contains output colorspace conversion routines.
*/

/*
* jddctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
* 
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

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From c51b66ebeace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the
number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's
JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific
JERR_PPM_TOOLARGE enum value.

Fixes #258

---
cderror.h | 5 +++--
rdbmp.c | 7 ++++++-
rdppm.c | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 @@ -48,6 +48,7 @@
 JMMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
 JMMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
 JMMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
 JMMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
 JMMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
 JMMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
 JMMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@
 JMMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
 #ifdef PPM_SUPPORTED
 JMMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
 JMMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-JMMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
 JMMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")

diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@
 typedef struct _bmp_source_struct {
 JDIMENSION row_width; /* Physical width of scanlines in file */
 int bits_per_pixel; /* remembers 8- or 24-bit format */
+ int cmap_length; /* colormap length */
 } bmp_source_struct;

@@ -124,6 +125,7 @@
 outptr = source->pub.buffer[0];
 for (col = cinfo->image_width; col > 0; col--) {
     t = GETJSAMPLE(*inptr++);
+    if (t >= cmaplen)
+        ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
     *outptr++ = colormap[0][t];
     *outptr++ = colormap[1][t];
     *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@
 outptr = source->pub.buffer[0];
 for (col = cinfo->image_width; col > 0; col--) {
     t = GETJSAMPLE(*inptr++);
+    if (t >= cmaplen)
+        ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
     *outptr++ = colormap[0][t];/* can omit GETJSAMPLE() safely */
     *outptr++ = colormap[1][t];
     *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@
 source->colormap = (*cinfo->mem->alloc_sarray)
     (j_common_ptr) cinfo, JPOOL_IMAGE,
     (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+    source->cmap_length = (int)biClrUsed;
+    /* and read it from the file */
read_colormap(source, (int) biClrUsed, mapentrysize);
/* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
    JSAMPROW pixrow;/!* FAR pointer to same */
    size_t buffer_width;/!* width of I/O buffer */
    JSAMPLE *rescale;/!* => maxval-remapping array, or NULL */
-   int maxval;
+   unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)

if (val > maxval)
-   ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+   ERREXIT(cinfo, JERR_PPM_OUTOF RANGE);

   return val;
}
--
2.17.2

Found in path(s):
  */opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo12-CVE-2018-14498.patch
No license file was found, but licenses were detected in source scan.

/*
 * jdapstd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
/*

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.
*/

* jinclude.h
 *
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* 
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*

* jerror.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* 
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* 
* These routines are used by both the compression and decompression code.
*/
/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

/*
 * jversion.h
 */
This file was part of the Independent JPEG Group's software:
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Modifications:
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This file contains software version identification.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd_i386.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
====================================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly
necessary to do so, because TurboJPEG uses versioned symbols, and if a function
changes in an ABI-incompatible way, that function is renamed and a legacy
function is provided to maintain backward compatibility. However, certain
Linux distro maintainers will blindly reject any library that is not versioned,
so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG
image from and decompress a JPEG image to an arbitrary position in a large
image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides
symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32.
This allows those libraries to be used on MultiArch-compatible systems (such as
Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems
without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating
the performance of the TurboJPEG Java API. It can be run with
'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace
(feature ported from jpeg-8d.)
[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set
to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.
[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libr Turbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
=================================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest".)

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed
libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1

======

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected
markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is \( \geq 98 \) and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.

[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
==================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.
1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems
0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/ChangeLog.txt
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 * jdmrgext.c
 *
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 *
 * This file contains code for merged upsampling/color conversion.
 */

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/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */
/*
* jpegtran.c
*
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* Copyright (C) 2010, D. R. Commander.
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* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

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---

Open Source Used in Cisco Vision Dynamic Signage Director 6.4 14935
package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
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/*
 * jpeglib.h
 *
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 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jpeglib.h
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 * jdsample.c
 *
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 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdsample.c
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 * jctrans.c
 *
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 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiQUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LkJP8tPYZ/libjpeg-turbo-1.2.90/jctrans.c

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 */
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  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcstest.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/bmp.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/bmp.h
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjutil.c

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/*
 *
 * jdapimin.c
 *
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 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains application interface code for the decompression half
 * of the JPEG library.  These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c.  But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdapimin.c

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 * jmemnobs.c
 *
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 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything.
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jmemnobs.c
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/*
 * wrppm.c
 *
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 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/wrppm.c
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 * jchuff.c
 */
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* This file contains Huffman entropy encoding routines.

* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
  * back up to the start of the current MCU. To do this, we copy state
  * variables into local working storage, and update them back to the
  * permanent JPEG objects only upon successful completion of an MCU.
* /

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jchuff.c
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/*
 * jmorecfg.h
 *
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 *
* This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
* /

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jmorecfg.h
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/*
 * jccoeffct.c
 *
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 *
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
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/ *
* jpegcomp.h
 *
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* For conditions of distribution and use, see the accompanying README file.
* *
* JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
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* *
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.
/*
 * jccolor.c
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 * This file contains input colorspace conversion routines.
 */

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 */
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 *
jdmaster.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
 *
wrjpgcom.c
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 *
jconfig.txt
 *

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 14944
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
* #define HAVE_PROTOTYPES
*/

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
* #define HAVE_UNSIGNED_CHAR
* #define HAVE_UNSIGNED_SHORT
*/

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS UNSIGNED
/* Define this if your system has an ANSI-conforming <stdio.h> file. */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, * but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in * <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, * unless you are using a large-data memory model or 80386 flat-memory mode. * On less brain-damaged CPUs this symbol must not be defined. * (Defining this symbol causes large data structures to be referenced through * "far" pointers and to be allocated with a special version of malloc.) */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less * than the first 15 characters. */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI * and pseudo-ANSI compilers get confused. To keep one of these bozos happy, * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you * actually get "missing structure definition" warnings or errors while * compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#if defined _WIN32
  #ifndef __RPCNDR_H__
    typedef unsigned char boolean;
  #endif
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas

/* of extended memory; on most other systems it's not as important. */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol. */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
  /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jconfig.txt

No license file was found, but licenses were detected in source scan.

/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math, 
* accuracy is lost due to imprecise representation of the scaled 
* quantization values. The smaller the quantization table entry, the less 
* precise the scaled value, so this implementation does worse with high- 
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive- 
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive- 
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                 *
**************************************************************************
*
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream.
*/
/
/*
 * This code is loosely based on ppmtogif from the PBPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 * 
 * We are also required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

: For conditions of distribution and use, see copyright notice in jsimdext.inc
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfmmxint.asm

No license file was found, but licenses were detected in source scan.

**USING THE IJG JPEG LIBRARY**

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data.
For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a
series of image compression operations. This makes it easy to re-use the
same parameter settings for a sequence of images. Re-use of a JPEG object
also has important implications for processing abbreviated JPEG datastreams,
as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from
in-memory buffers. If the application is doing file-to-file compression,
reading image data from the source file is the application's responsibility.
The library emits compressed data by calling a "data destination manager",
which typically will write the data into a file; but the application can
provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.
Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
----------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at
For best results, source data values should have the precision specified by
BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress
data that's only 6 bits/channel, you should left-justify each value in a
byte before passing it to the compressor. If you need to compress data
that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12.
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details,
except that colormapped output is supported. (Again, a JPEG file is never
colormapped. But you can ask the decompressor to perform on-the-fly color
quantization to deliver colormapped output.) If you request colormapped
output then the returned data array contains a single JSAMPLE per pixel;
it's value is an index into a color map. The color map is represented as
a 2-D JSAMPARRAY in which each row holds the values of one color component,
that is, colormap[i][j] is the value of the i'th color component for pixel
value (map index) j. Note that since the colormap indexes are stored in
JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE
(ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has
a bunch of subsidiary structures which are allocated via malloc(), but the
application doesn't control those directly.) This struct can be just a local
variable in the calling routine, if a single routine is going to execute the
whole JPEG compression sequence. Otherwise it can be static or allocated
from malloc().

You will also need a structure representing a JPEG error handler. The part
of this that the library cares about is a "struct jpeg_error_mgr". If you
are providing your own error handler, you'll typically want to embed the
jpeg_error_mgr struct in a larger structure; this is discussed later under
"Error handling". For now we'll assume you are just using the default error
handler. The default error handler will print JPEG error/warning messages
on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into
the JPEG object's "err" field, and then call jpeg_create_compress() to
initialize the rest of the JPEG object.
Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

`jpeg_create_compress` allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling `jpeg_start_compress()` and `jpeg_finish_compress()`.

3. Set parameters for compression, including image size & colorspace.
You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults();` then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */

4. jpeg_start_compress(...);
```

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:
```c
jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream
will be written. This is appropriate in most cases. If you think you might
want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines()
one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass
just one or a few scanlines at a time. The expected format for the passed
data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec
contains some weasel wording about how top and bottom are application-defined
terms (a curious interpretation of the English language...) but if you want
your files to be compatible with everyone else's, you WILL use top-to-bottom
order. If the source data must be read in bottom-to-top order, you can use
the JPEG library's virtual array mechanism to invert the data efficiently.
Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far
in the next_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data.
example.c shows the following code for the case of a full-size 2-D source
array containing 3-byte RGB pixels:

    JSAMPROW row_pointer[1];/* pointer to a single row */
    int row_stride;/* physical row width in buffer */

    row_stride = image_width * 3;/* JSAMPLEs per row in image_buffer */

    while (cinfo.next_scanline < cinfo.image_height) {
        row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
        jpeg_write_scanlines(&cinfo, row_pointer, 1);
    }
```
jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don’t forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you’ll need to repeat all of step 3.
7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination().

(See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

-----------------------
Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE *infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.
You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter
settings to be preserved across cycles, as you can for compression.
You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to
begin decompression. This will initialize internal state, allocate working
memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color
quantization, jpeg_start_decompress() will do everything needed before data
output can begin. In this case jpeg_start_decompress() may take quite a while
to complete. With a single-scan (non progressive) JPEG file and default
decompression parameters, this will not happen; jpeg_start_decompress() will
return quickly.

After this call, the final output image dimensions, including any requested
scaling, are available in the JPEG object; so is the selected colormap, if
colormapped output has been requested. Useful fields include

output_width	image width and height, as scaled
output_height
out_color_components	# of color components in out_color_space
output_components	# of color components returned per pixel
colormap	the selected colormap, if any
actual_number_of_colors	number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it
equals out_color_components. It is the number of JSAMPLE values that will be
emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your
output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate
data buffers (as djpeg does), then the manager's protocol requires that you
request large buffers *before* calling jpeg_start_decompress(). This is a
little tricky since the output_XXX fields are not normally valid then. You
can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).
6. while (scan lines remain to be read)
    jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.
It is an error to call jpeg_finish_decompress() before reading the correct
total number of scanlines. If you wish to abort decompression, call
jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as
discussed next, or you may use it to decompress another image. In that case
return to step 2 or 3 as appropriate. If you do not change the source
manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling
jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of
destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or
jpeg_destroy() if you don't need the JPEG object any more, or
jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object.
The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
-----------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h
to obtain declarations of data types and routines. Before including
jpeglib.h, include system headers that define at least the typedefs FILE and
size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on
older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also
include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are
installing the JPEG header files in a system directory, you will want to
install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program
is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix
machines) and reference it at your link step. If you use only half of the
library (only compression or only decompression), only that much code will be
included from the library, unless your linker is hopelessly brain-damaged.
The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes
you, we don't really recommend it. The trouble with shared libraries is that
at some point you'll probably try to substitute a new version of the library
without recompiling the calling applications. That generally doesn't work
because the parameter struct declarations usually change with each new
version. In other words, the library's API is *not* guaranteed binary
compatible across versions; we only try to ensure source-code compatibility.
(In hindsight, it might have been smarter to hide the parameter structs from
applications and introduce a ton of access functions instead. Too late now,
however.)

On some systems your application may need to set up a signal handler to ensure
that temporary files are deleted if the program is interrupted. This is most
critical if you are on MS-DOS and use the jmemdos.c memory manager back end;
it will try to grab extended memory for temp files, and that space will NOT be
freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually
require the stdio library: only the default source/destination managers and
error handler need it. You can use the library in a stdio-less environment
if you replace those modules and use jmemnobs.c (or another memory manager of
your own devising). More info about the minimum system library requirements
may be found in jinclude.h.

ADVANCED FEATURES
====================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG
compression, as well as the "helper" routines provided to assist in this
task. Proper setting of some parameters requires detailed understanding
of the JPEG standard; if you don't know what a parameter is for, it's best
not to mess with it! See REFERENCES in the README file for pointers to
more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set
all the parameters; that way your code is more likely to work with future JPEG
libraries that have additional parameters. For the same reason, we recommend
you use a helper routine where one is provided, in preference to twiddling
cinfo fields directly.
The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`
Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`
Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization.
If the `force_baseline` parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`
Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise.

`force_baseline` again constrains the computed table entries to 1..255.

`int jpeg_quality_scaling (int quality)`
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

```c
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
```

Set default quantization tables with linear q_scale_factor[] values (see below).

```c
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
               const unsigned int *basic_table,
               int scale_factor, boolean force_baseline)
```

Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

```c
jpeg_simple_progression (j_compress_ptr cinfo)
```

Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

```c
J_DCT_METHOD dct_method
```

Selects the algorithm used for the DCT step. Choices are:

- JDCT_ISLOW: slow but accurate integer algorithm
- JDCT_IFAST: faster, less accurate integer method
- JDCT_FLOAT: floating-point method
- JDCT_DEFAULT: default method (normally JDCT_ISLOW)
- JDCT_FASTEST: fastest method (normally JDCT_IFAST)

The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

I_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.
boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLs]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLs]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage. Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance
is mainly only useful if chrominance subsampling is disabled. 2x2
chrominance subsampling (AKA "4:2:0") is the default, but you can
explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

[jlibjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version
Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit
Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the
returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default
based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different
colorspace. For example, set it to JCS_GRAYSCALE to get grayscale
output from a color file. (This is useful for previewing: grayscale
output is faster than full color since the color components need not
be processed.) Note that not all possible color space transforms are
currently implemented; you may need to extend jdcolor.c if you want an
unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the only supported scaling ratios
are M/8 with all M from 1 to 16, or any reduced fraction thereof (such
as 1/2, 3/4, etc.) (The library design allows for arbitrary
scaling ratios but this is not likely to be implemented any time soon.)
Smaller scaling ratios permit significantly faster decoding since
fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE,
meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color
map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.
boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FSFloyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
--------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The
existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <-> YCbCr and CMYK <-> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninversed YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

**error_exit (j_common_ptr cinfo)**
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

**format_message (j_common_ptr cinfo, char * buffer)**
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.
emit_message (j_common_ptr cinfo, int msg_level)

Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-------------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer’s size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally “char” or “unsigned char”. On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager’s empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer’s starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

```
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).
```

---

Open Source Used In Cisco Vision Dynamic Signage Director 6.4 14981
term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.
I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an
overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE. The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned.
The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans.
Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
  adjust output decompression parameters if required
  jpeg_start_output(); /* start a new output pass */
  for (all scanlines in image) {
    jpeg_read_scanlines()
    display scanlines
  }
  jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop
condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number
will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived.

This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output().

The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row.

Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance
through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data.
and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
- enable_external_quant
- enable_2pass_quant

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or
transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to
prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);

quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
constant JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you
can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending
data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)
Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
-----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colors() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.
The required dimensions of the supplied data can be computed for each component as:

cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row

cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

cinfo->comp_info[0].h_samp_factor = 2 for Y

cinfo->comp_info[0].v_samp_factor = 2

cinfo->comp_info[1].h_samp_factor = 1 for Cb

cinfo->comp_info[1].v_samp_factor = 1

cinfo->comp_info[2].h_samp_factor = 1 for Cr

cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downscaled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
-----------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.
If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object
jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().
jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppressTables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library’s inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
  long pass_counter;/* work units completed in this pass */
  long pass_limit;/* total number of work units in this pass */
  int completed_passes;/* passes completed so far */
  int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

---------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).
As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.

2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be
larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------
The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-----------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LI8tPYZ/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* `djpeg [options] -outfile outputfile inputfile`
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/**
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/**
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

/*
* jchuff.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/

/*
* jchuff.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/

No license file was found, but licenses were detected in source scan.
/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 */
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains routines to read input images in GIF format.

NOTE: to avoid entanglements with Unisys' patent on LZW compression, the ability to read GIF files has been removed from the IJG distribution.
Sorry about that.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

This file was part of the Independent JPEG Group's software:
Copyright (C) 1991-1997, Thomas G. Lane.
Modified 2003-2010 by Guido Vollbeding.

This file contains master control logic for the JPEG compressor.
These routines are concerned with parameter validation, initial setup, and inter-pass control (determining the number of passes and the work to be done in each pass).

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-1997, Thomas G. Lane.
Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86,
x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as
fast as libjpeg, all else being equal. On other types of systems,
libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue
of its highly-optimized Huffman coding routines. In many cases, the
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG
codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less
powerful but more straightforward TurboJPEG API. libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated
derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and
VirtualGL projects made numerous enhancements to the codec in 2009, and in
early 2010, libjpeg-turbo spun off into an independent project, with the goal
of making high-speed JPEG compression/decompression technology available to a
broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdarith.c

No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains Huffman entropy decoding routines for progressive JPEG.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
* wrrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatastd-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cdjpeg.c
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; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdcolmmx.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfsseflt.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jisseflt.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcsamss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdperss2-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdsamss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm
Open Source Used In Cisco Vision Dynamic Signage Director 6.4 15024

* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90-simd/jiss2f.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90-simd/jiss2f-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90-simd/jcqnts2i.asm
/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 *   * pool-based allocation and freeing of memory;
 *   * policy decisions about how to divide available memory among the
 *     virtual arrays;
 */

No license file was found, but licenses were detected in source scan.
* control logic for swapping virtual arrays between main memory and backing storage.
* The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.
* This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/ *
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step with an 8-to-4 step that produces the four averages of two adjacent outputs (or an 8-to-2 step producing two averages of four outputs, for 2x2 output). These steps were derived by computing the corresponding values at the end of the normal LL&M code, then simplifying as much as possible.
* 1x1 is trivial: just take the DC coefficient divided by 8.
* See jidctint.c for additional comments.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/ *
* transupp.h
*
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
 *
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/*
* jsimddct.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPtYPY/lijjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

/*
* jquant2.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPtYPY/lijjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.

* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.

* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.

* An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiquL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPsPYZ/libjpeg-turbo-1.2.90/jcsample.c
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Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/License.rtf
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TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpeg turbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.
Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/README

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see
Block comments should be laid out thusly:

/**
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else


#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:

struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight
characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
  * While an 8-point DCT cannot be done in less than 11 multiplies, it is
  * possible to arrange the computation so that many of the multiplies are
  * simple scalings of the final outputs. These multiplies can then be
  * folded into the multiplications or divisions by the JPEG quantization
  * table entries. The AA&N method leaves only 5 multiplies and 29 adds
  * to be done in the DCT itself.
  * The primary disadvantage of this method is that with fixed-point math,
  * accuracy is lost due to imprecise representation of the scaled
  * quantization values. The smaller the quantization table entry, the less
  * precise the scaled value, so this implementation does worse with high-
  * quality-setting files than with low-quality ones.
/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jidctfst.c
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/*
 * jcmarker.c
 *
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 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
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  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcmarker.c
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#
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#!/bin/sh

if [ ! """id -u"" = "0" " ]; then
  echo "ERROR: This script must be executed as root"
  exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM='lsbom -s -f -l '$RECEIPT'/Contents/Archive.bom'
else
  LSBOM='pkgutil --files '$MACPACKAGE
fi

mylsbom()
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
  if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
  echo Removing file: "$file"
  rm "$file" 2>&1 || EXITSTATUS=-1; fi
  echo Removed file: "$file"

}
echo Removing package directories ...
if [-d /opt/$PACKAGE/bin ]; then
rm /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/lib ]; then
rm /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/include ]; then
rm /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [-d /opt/$PACKAGE/man/man1 ]; then
rm /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/man ]; then
rm /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/classes ]; then
rm /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rm /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [-d $RECEIPT ]; then
echo Removing package receipt ...
rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
echo Forgetting package $MACPACKAGE ...
pkgutil --forget $MACPACKAGE
fi
exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/uninstall.in
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/
* jcomapi.c
*
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* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
/ /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiuI/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif
%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0

%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; *******************************************************

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
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 *
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 * This file contains routines to read input images in Targa format.
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
*/
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdtarga.c
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 * jdpostct.c
 *
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 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

; ; jdct.inc - private declarations for forward & reverse DCT subsystems
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; ; Based on
; ; x86 SIMD extension for IJG JPEG library
; ; Copyright (C) 1999-2006, MIYASAKA Masaru.
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; ; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdct.inc
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Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jccolext.c
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 * jccolext.c
 *
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 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdct.h
 *
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*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jedctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdct.h

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/*
* jdatadst.c
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* Modified 2009-2012 by Guido Vollbeding.
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* 
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatadst.c

1.1257 tomcat-websocket 7.0.64

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For an executable, the required form of the "work that uses the
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1.1264 el-api 6.0.29

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numbered 2 because it goes with version 2 of the ordinary GPL.]

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/**
 * Overrides binding confidentiality. */
/**
 * Returns confidentiality override flag.
 * @return true iff the encoder cannot provide confidentiality
 */
/**
 * Sets confidentiality override flag.
 * @param flag override flag
 */

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  jar/org/mule/module/oauth2/internal/TokenResponseProcessor.java
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1.1273 tomcat-jdbc 7.0.100

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* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-
jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-
jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java

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jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-
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* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/support/NoUniqueBeanDefinitionException.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/ExtendedBeanInfo.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java

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* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2.jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2.jar/org/springframework/beans/factory/annotation/Qualifier.java
* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2.jar/org/springframework/beans/factory/BeanNameAware.java
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* /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/Aware.java

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  * /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/xml/ParserContext.java
  * /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
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  * /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/parsing/EmptyReaderEventListener.java
  * /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/annotation/Autowire.java
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  * /opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java

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  */opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
  */opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java
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  */opt/cola/permits/1158685239_1619822664.25/0/spring-beans-3-2-10-release-sources-2-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
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libssh2 http://www.libssh2.org/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
1.1282 gstreamer 1.10.4-2.el7

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1.1286 mule-transport-file 3.6.1

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  jar/org/mule/transport/file/FilenameParser.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/FileMessageDispatcher.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/MuleMessageFactory.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/FileMessageRequesterFactory.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/filters/FilenameWildcardFilter.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/transformers/FileToString.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/i18n/FileMessages.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/filters/FilenameRegexFilter.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/transformers/FileToByteArray.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/comparator/OlderFirstComparator.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/config/FileManager.java
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  jar/org/mule/transport/file/convert/FileMessageDispatcher.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
  jar/org/mule/transport/file/transformers/FileToByteArray.java
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  jar/org/mule/transport/file/comparator/OlderFirstComparator.java
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  jar/org/mule/transport/file/transformers/FileToByteArray.java
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jar/org/mule/transport/file/FileContentsMuleMessageFactory.java
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jar/org/mule/transport/file/FileMessageRequester.java
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jar/org/mule/transport/file/InputStreamCloseListener.java
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* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
jar/org/mule/transport/file/FileMessageReceiver.java
* /opt/ws_local/PERMITS_SQL/1025582837_1594525628.58/0/mule-transport-file-3-6-1-sources-1-
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Gocheck - A rich testing framework for Go

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1.1305 libsoup 2.62.2-2.el7

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  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/xml/JSONTypes.java
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1.1317 mdadm 4.1 4.el7

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1.1326 xpp3-min 1.1.3.4.O

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**1.1327 jstl 1.1.2**

**1.1328 make 3.82-21.el7**

**1.1328.1 Available under license :**

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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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implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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 * version.
 */

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*/
/**
 * Constructs a new [Textifier]. *i>Subclasses must not use this constructor</i>. Instead, they must use the [Textifier(int)] version.
 */

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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>.
* */

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* jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/
/**
 * Creates a new GeneratorAdapter. Subclasses must not use this constructor. Instead, they must use the
 * GeneratorAdapter(int, MethodVisitor, int, String, String) version.
 * @param mv the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see Opcodes).
 * @param name the method's name.
 * @param desc the method's descriptor (see Type).
 */

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/**
 * Creates a new JSRInliner. Subclasses must not use this
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* { @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.
*
* @param mv the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access the method's access flags (see { @link Opcodes}). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name the method's name.
* @param desc the method's descriptor (see { @link Type}).
* @param signature the method's signature. May be <tt>null</tt>.
* @param exceptions the internal names of the method's exception classes
* (see { @link Type#getInternalName() getInternalName()}). May be
* <tt>null</tt>.
*/

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Found in path(s):
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java
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* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceFieldVisitor.java
1.1337 maven-scm-provider-svn-commons

1.4

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* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-jar/org/jibx/extras/IdRefMapperBase.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-jar/org/jibx/extras/IdDefRefMapperBase.java

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* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-jar/org/jibx/extras/Dom4JMapperBase.java

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* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-jar/org/jibx/extras/ObjectArrayMapper.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-jar/org/jibx/extras/TypedArrayMapper.java

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jar/org/jibx/extras/HashMapperStringToSchemaType.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-
jar/org/jibx/extras/Dom4JListMapper.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-
jar/org/jibx/extras/DiscardElementMapper.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-
jar/org/jibx/extras/Dom4JElementMapper.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-
jar/org/jibx/extras/DomFragmentMapper.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-
jar/org/jibx/extras/DiscardListMapper.java
* /opt/ws_local/PERMITS_SQL/1025582826_1594246375.29/0/jibx-extras-1-2-4-5-sources-
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1.1351 google-http-client-jackson2 1.19.0

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* /opt/cola/permits/1158684652_1619822401.57/0/spring-aspects-4-1-7-release-sources-2jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /opt/cola/permits/1158684652_1619822401.57/0/spring-aspects-4-1-7-release-sources-2jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
* /opt/cola/permits/1158684652_1619822401.57/0/spring-aspects-4-1-7-release-sources-2jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
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analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton. The full snowball package is available from http://snowball.tartarus.org/

The KStem stemmer in

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\texttt{analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt},
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java},
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java},
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java}

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ElementHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Document.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Action.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightCDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/IllegalAddException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBModifier.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Pattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FilterIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Pattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/Context.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBObjectHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/QName.java
Open Source Used in Cisco Vision Dynamic Signage Director 6.4 16002
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jar/org/dom4j/datatype/InvalidSchemaException.java
*/
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/xpath/DefaultNamespaceContext.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/DatatypeElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DocumentSource.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMSAXContentHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/JAXPHelper.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleSet.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Branch.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Text.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMDocumentResult.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/SchemaParser.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DispatchHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyContentHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/AttributeHelper.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultNamespace.java
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1.1371 batik-css 1.7

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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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 */
/**
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large OBJects.
 * Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
 * [ @link OracleLobHandler ]; most other databases should be able to work
 * with the provided [ @link DefaultLobHandler ].
 *
 * <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
 * LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
  * each transaction; they are not thread-safe because they might track
  * allocated database resources in order to free them after execution.
  *
  * <p>Most databases/drivers should be able to work with [DefaultLobHandler],
  * which by default delegates to JDBC's direct accessor methods, avoiding the
  * [Blob] and [Clob] API completely.
  * [DefaultLobHandler] can also be configured to access LOBs using
  * [PreparedStatement.setBlob/setClob] (e.g. for PostgreSQL), through
  * setting the [DefaultLobHandler#setWrapAsLob] property.
  *
  * <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
  * proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
  * PreparedStatement's corresponding setter methods. Therefore, you need to use
  * [OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types
  * of access. The Oracle 10g+ JDBC driver will work with [DefaultLobHandler]
  * as well, with some limitations in terms of LOB sizes depending on DBMS setup;
  * as of Oracle 11g (or actually, using the 11g driver even against older databases),
  * there should be no need to use [OracleLobHandler] at all anymore.
  *
  * <p>Of course, you need to declare different field types for each database.
  * In Oracle, any binary content needs to go into a BLOB, and all character content
  * beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
  * CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
  * portability, use a LobHandler for fields that might typically require LOBs on
  * some database because of the field size (take Oracle's numbers as a guideline).
  *
  * <p>Summarizing the recommended options (for actual LOB fields):
  * JDBC 4.0 driver (including Oracle 11g driver): Use DefaultLobHandler,
  * potentially with [streamAsLob=true] if your database driver requires that
  * hint when populating a LOB field. Fall back to [createTemporaryLob=true]
  * if you happen to run into LOB size limitations with your (Oracle) database setup.
  * Oracle 10g driver: Use DefaultLobHandler with standard setup.
  * On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
  * DefaultLobHandler should work with standard setup out of the box. Alternatively,
  * consider using the proprietary [OracleLobHandler] (see below).
  * Oracle 9i driver: Use [OracleLobHandler] with a connection-pool-specific
  * [setNativeJdbcExtractor NativeJdbcExtractor].
  * PostgreSQL: Configure [DefaultLobHandler] with [wrapAsLob=true],
  * and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
  * For all other database drivers (and for non-LOB fields that might potentially
  * turn into LOBs on some databases): Simply use a plain [DefaultLobHandler].
  *
  * @author Juergen Hoeller
  * @since 23.12.2003
  * @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
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* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* <li>
* <p>This package and related packages are discussed in Chapter 9 of
* <a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
* by Rod Johnson (Wrox, 2002).
*/

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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never { @code null })
*/

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* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-
jar/org/springframework/jdbc/package-info.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-
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 */

/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

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* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4.1.7-release-sources-2.jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4.1.7-release-sources-2.jar/org/springframework/jdbc/core/SqlOutParameter.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4.1.7-release-sources-2.jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4.1.7-release-sources-2.jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4.1.7-release-sources-2.jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4.1.7-release-sources-2.jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4.1.7-release-sources-2.jar/org/springframework/jdbc/datasource/init/ScriptException.java

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jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/support/rowset/SqlRowSetMetaData.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/JdbcOperations.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java

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* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java

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*/
/**
* {@link LobHandler} implementation for Oracle databases. Uses proprietary API
* to create {@code oracle.sql.BLOB} and {@code oracle.sql.CLOB}
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
*<p>While most databases are able to work with {@link DefaultLobHandler},
*Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
*Blob/Clob instances created via its own proprietary BLOB/CLOB API,
*and additionally doesn't accept large streams for PreparedStatement's
*corresponding setter methods. Therefore, you need to use a strategy like
*this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
*(which still supports access to Oracle 9i databases).
*<br>NOTE: As of Oracle 10.2, {@link DefaultLobHandler} should work equally
*well out of the box. On Oracle 11g, JDBC 4.0 based options such as
*{@link DefaultLobHandler#setStreamAsLob} and {@link DefaultLobHandler#setCreateTemporaryLob}
*are available as well, rendering this proprietary OracleLobHandler obsolete.<br>
*Also, consider upgrading to a new driver even when accessing an older database.
*See the {@link LobHandler} interface javadoc for a summary of recommendations.
*<p>Needs to work on a native JDBC Connection, to be able to cast it to
*{@code oracle.jdbc.OracleConnection}. If you pass in Connections from a
*connection pool (the usual case in a Java EE environment), you need to set an
*appropriate {@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
*to allow for automatic retrieval of the underlying native JDBC Connection.
*LobHandler and NativeJdbcExtractor are separate concerns, therefore they
*are represented by separate strategy interfaces.
*<p>Coded via reflection to avoid dependencies on Oracle classes.
*Even reads in Oracle constants via reflection because of different Oracle
*drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
*As this LobHandler initializes Oracle classes on instantiation, do not define
*this as eager-initializing singleton if you do not want to depend on the Oracle
*JAR being in the class path: use "lazy-init=true" to avoid this issue.
*<br>@author Juergen Hoeller
*<br>@author Thomas Risberg
*<br>@since 04.12.2003
*<br>@see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of [@link DefaultLobHandler] for the Oracle 10g driver and higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* [@link DefaultLobHandler#setCreateTemporaryLob] is the direct equivalent of this OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

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* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/UpdatableSqlQuery.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java

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* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2.jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2.jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2.jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2.jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2.jar/org/springframework/jdbc/support/XMLSqlXmlValue.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2.jar/org/springframework/jdbc/support/incrementer/DisposableSqlTypeValue.java
* /opt/cola/permits/1158684578_1619822235.31/0/spring-jdbc-4-1-7-release-sources-2.jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
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Found in path(s):
* /opt/cola/permits/1158684800_1619822661.25/0/jetty-continuation-9-0-7-v20131107-sources-1-jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /opt/cola/permits/1158684800_1619822661.25/0/jetty-continuation-9-0-7-v20131107-sources-1-jar/org/eclipse/jetty/continuation/package-info.java
* /opt/cola/permits/1158684800_1619822661.25/0/jetty-continuation-9-0-7-v20131107-sources-1-jar/org/eclipse/jetty/continuation/Servlet3Continuation.java
* /opt/cola/permits/1158684800_1619822661.25/0/jetty-continuation-9-0-7-v20131107-sources-1-jar/org/eclipse/jetty/continuation/FauxContinuation.java
* /opt/cola/permits/1158684800_1619822661.25/0/jetty-continuation-9-0-7-v20131107-sources-1-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java
* /opt/cola/permits/1158684800_1619822661.25/0/jetty-continuation-9-0-7-v20131107-sources-1-jar/org/eclipse/jetty/continuation/ContinuationSupport.java
* /opt/cola/permits/1158684800_1619822661.25/0/jetty-continuation-9-0-7-v20131107-sources-1-jar/org/eclipse/jetty/continuation/ContinuationFilter.java

1.1383 javasimonjdbc 2.5.0
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1.1384 datatype 1.3.04
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/  
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/  
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

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The actual classes of The Simple API for CSS (SAC) came from:  
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Handles or intercepts a \{link ChannelInboundInvoker\} or \{link ChannelOutboundInvoker\} operation, and forwards it to the next handler in a \{link ChannelPipeline\}.

Sub-types

\{link ChannelHandler\} itself does not provide many methods. To handle a \{link ChannelInboundInvoker\} or \{link ChannelOutboundInvoker\} operation you need to implement its sub-interfaces. There are many different sub-interfaces which handles inbound and outbound operations.

But the most useful for developers may be:

- \{link ChannelInboundHandlerAdapter\} handles and intercepts inbound operations
- \{link ChannelOutboundHandlerAdapter\} handles and intercepts outbound operations

You will also find more detailed explanation from the documentation of each sub-interface on how an event is interpreted when it goes upstream and downstream respectively.

The context object

A \{link ChannelHandler\} is provided with a \{link ChannelHandlerContext\} object. A \{link ChannelHandler\} is supposed to interact with the \{link ChannelPipeline\} it belongs to via a context object. Using the context object, the \{link ChannelHandler\} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using \{link AttributeKey\}s) which is specific to the handler.

State management

A \{link ChannelHandler\} often needs to store some stateful information.
The simplest and recommended approach is to use member variables:

```
* public interface Message {
*     // your methods here
* }
 *
* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*
*     <b>private boolean loggedIn;</b>
*
*     <pre>@Override
*     public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*         @link Channel> ch = e.getChannel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ch.write(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* ...
* }<pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See <link ChannelInitializer#initChannel(Channel)>.
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     @Override
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* </pre>
* <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 <AttributeKey>s which is provided by
* <Link ChannelHandlerContext>: 
* <pre>
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        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();
            }
        }
    }

    @Sharable
    public class DataServerInitializer extends ChannelInitializer<Channel> {
        private static final DataServerHandler SHARED = new DataServerHandler();

        @Override
        public void initChannel(Channel channel) {
            channel.pipeline().addLast("handler", SHARED);
        }
    }

    @Sharable
    The 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, you can add the same handler instance to different pipelines.
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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* /opt/ws_local/PERMITS_SQL/1076874092_1596713193.25/0/netty-transport-4-0-20-final-sources-1-
  jar/io/netty/bootstrap/ChannelFactory.java
1.1400 chardet 2.2.1
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