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Contents

1.1 boost 1.65.1

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1.2 ldns 1.7.1

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Provide generalized library-building support services.
Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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* FILE: sha2.c
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*
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*
* Modified by Jelte Jansen to fit in ldns, and not clash with any
* system-defined SHA code.
* Changes:
* - Renamed (external) functions and constants to fit ldns style
* - Removed _End and _Data functions
* - Added ldns_shaX(data, len, digest) convenience functions

* - Removed prototypes of _Transform functions and made those static
*
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*
* $Id:
 sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
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/* From openssh4.3p2 compat/inet_aton.c */

/*

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1.3 websocketpp 0.8.0

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

****** SHA1 Library (sha1/sha1.hpp) ******
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1.4 minizip 1.01

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1.5 tidy 5.7.24

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1.6 jansson 2.10

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1.8 bouncy-castle 1.65

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1.15 guava 30.1.1-android

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jar/com/google/common/graph/package-info.java

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/*

 * This following method is a modified version of one found in

 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30

 * which contained the following notice:

 *

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/net/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/Strings.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/SortedLists.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/package-info.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/Quantiles.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
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*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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 */

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jar/com/google/common/collect/Hashing.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/ForwardingFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Splitter.java

*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataInput.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtIncompatible.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Service.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtCompatible.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java

*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Cut.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/Escapers.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/HostSpecifier.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/LocalCache.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LineProcessor.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java

*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheBuilder.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractService.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SparseImmutableTable.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableTable.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeResolver.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/MapMaker.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/cache/ReferenceEntry.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/InternetDomainName.java

*

 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/html/HtmlEscapers.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/DenseImmutableTable.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/UrlEscapers.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Callables.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/SignedBytes.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java

*

 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteProcessor.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/xml/XmlEscapers.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedBytes.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/Platform.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Platform.java

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*/
/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.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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* the License.
*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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*/

/**

* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular

* version.

*/

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/primitives/DoublesMethodsForWeb.java

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jar/com/google/common/base/Preconditions.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/io/Resources.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/io/package-info.java

*

 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/base/FinalizablePhantomReference.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/base/Suppliers.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/base/Charsets.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/io/LineReader.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/base/FinalizableSoftReference.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/io/CharStreams.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/base/Predicate.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteStreams.java

*

 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Primitives.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LineBuffer.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableWeakReference.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Predicates.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Functions.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/AbstractIterator.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/package-info.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/HashBiMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/DeadEvent.java

*

 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableReference.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/Subscribe.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Objects.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Supplier.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/MultiInputStream.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Interners.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/EnumMultiset.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java

*

 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/package-info.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Defaults.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Function.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/Files.java
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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CountingInputStream.java
*
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/package-info.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/VerifyException.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Runnables.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/HashingInputStream.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java

*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/CharSequenceReader.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/MultiReader.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

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jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterable.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Count.java
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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 */
/**
 * Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
 * key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated Pass a key of type {@code Comparable}
to use {@link
 *   ImmutableSortedMap#of(Comparable, Object)}.
 */

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/CommonPattern.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingDeque.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredSetMultimap.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RangeMap.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimap.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CollectPreconditions.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableBiMap.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMultimap.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableMap.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/StandardTable.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Serialization.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/PeekingIterator.java

*

 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapValues.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/MacHashFunction.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
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```
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
 wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/io/CharSource.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/hash/LongAddable.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/BaseEncoding.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/ByteSource.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/ClassPath.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/StatsAccumulator.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeCapture.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/Element.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
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jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
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jar/com/google/common/hash/Java8Compatibility.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/package-info.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractHasher.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInts.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedLongs.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheLoader.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractCache.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/package-info.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/primitives/ParseRequest.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Funnel.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalNotification.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeSet.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/Weigher.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/net/HostAndPort.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/HashCode.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/CacheStats.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalCause.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/Absent.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/cache/ForwardingCache.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/FunctionalEquivalence.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/math/DoubleUtils.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyContiguousSet.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeParameter.java

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jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/net/MediaType.java
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jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/ForwardingCondition.java
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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/primitives/ImmutableIntArray.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/Graph.java
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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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jar/com/google/common/collect/ForwardingSortedSetMultimap.java

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jar/com/google/common/collect/RowSortedTable.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableTable.java
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jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/GraphConstants.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/NetworkConnections.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MutableValueGraph.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraph.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardNetwork.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MapRetrievalCache.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ValueGraph.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/GraphBuilder.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPairIterator.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Comparators.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingGraph.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/GraphConnections.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPair.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/AbstractValueGraph.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/graph/ValueGraphBuilder.java
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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/annotations/VisibleForTesting.java
*
 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
jar/com/google/common/reflect/TypeToken.java
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/opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/escape/CharEscaper.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/io/PatternFilenameFilter.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/base/CaseFormat.java

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*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* the License.
*/
/**
* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompactHashing.java

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* the License.
*/
/**
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableList.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingCollection.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Ordering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/NullsLastOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSet.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMapEntry.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SingletonImmutableSet.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ListMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SortedSetMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeMultiset.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/LinkedListMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Interner.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/UsingToStringOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractIterator.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Maps.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

jar/com/google/common/collect/ForwardingIterator.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ComparatorOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/SetMultimap.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Lists.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingMultiset.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Multiset.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSet.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractBiMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ExplicitOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Iterators.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/LinkedHashMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Multimap.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/LexicographicalOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingObject.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/BiMap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Iterables.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/MapDifference.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractListMultimap.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Multimaps.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMultiset.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/Sets.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingListIterator.java

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/CompoundOrdering.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/NaturalOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ReverseOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayListMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/NullsFirstOrdering.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingList.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultiset.java

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 /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java

* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-

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* /opt/cola/permits/1148655839_1618904031.03/0/guava-30-1-1-android-sources-
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1.16 libcxx 9.0.9svn

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1.17 libcxxabi 9.0.9svn

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1.19 kotlin 1.6.10

1.20 okio 3.0.0

1.20.1 Available under license :

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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/SegmentedByteString.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonMain/okio/SegmentedByteString.kt
*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/SegmentSharingTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmTest/okio/utilNonJvm.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/mingwX64Main/okio/WindowsFileHandle.kt
*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/FixedLengthSourceTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/TimeoutTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-

jar/jvmMain/okio/internal/FixedLengthSource.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/ZipFileSystemTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/unixMain/okio/UnixFileHandle.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeMain/okio/FileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/ZipBuilder.kt

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jar/jvmTest/okio/internal/ResourceFileSystemTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/jvmMain/okio/internal/ResourceFileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/FileHandle.kt

*
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/utilJvm.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/jvmTest/okio/FileHandleTestingFileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/internal/-
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/GzipKotlinTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/ByteStringKotlinTest.kt

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 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/-DeprecatedUtf8.kt

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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/BufferCursorTest.java

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/PipeKotlinTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/NioTest.java

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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/ThrottlerTest.kt

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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/DeflateKotlinTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/Throttler.kt
*
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jar/jvmTest/okio/ForwardingTimeoutTest.java
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/-DeprecatedOkio.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/Stopwatch.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/GzipSink.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/RealBufferedSource.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/InflaterSource.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/SegmentPool.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/-CommonPlatform.kt
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*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/internal/-Utf8.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/internal/-
RealBufferedSink.kt
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Found in path(s):

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/WaitUntilNotifiedTest.java

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/HashingSink.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/HashingSourceTest.kt

*

 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/LargeStreamsTest.java

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/Pipe.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/HashingSource.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/HashingSinkTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/Options.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/PipeTest.java

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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeMain/okio/-SizetVariant.kt

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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/BufferFactory.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/Buffer.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/Okio.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/Sink.kt
*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/Source.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/Sink.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/internal/-Buffer.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonTest/okio/CommonRealBufferedSinkTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonTest/okio/AbstractBufferedSourceTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/BufferedSink.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/BufferCommonTest.kt
*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/BufferedSource.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/BufferedSink.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonTest/okio/AbstractBufferedSinkTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonTest/okio/CommonRealBufferedSourceTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonTest/okio/CommonOkioKotlinTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/Timeout.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonTest/okio/BufferedSinkFactory.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/Timeout.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/util.kt
*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/BufferedSource.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/commonTest/okio/BufferedSourceFactory.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/Buffer.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/internal/Md5.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-
jar/jvmTest/okio/MessageDigestConsistencyTest.kt
*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Sha256.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Md5.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Sha1.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/internal/Sha512.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/internal/Sha256.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/internal/Sha1.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/internal/HashFunction.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/internal/HashFunction.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/CipherSink.kt
*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/CipherAlgorithm.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/CipherSinkTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/CipherSourceTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/CipherSource.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/CipherFactory.kt
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* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/FakeFileSystemTest.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/HashingSource.kt
* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/mingwX64Main/okio/-Windows.kt
*

/opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/PathTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/HashingSink.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/FileMetadata.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/ForwardingFileSystemTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/Path.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/sizet64Main/okio/-Sizet64.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jsMain/okio/-JsPlatform.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/sizet32Main/okio/-Sizet32.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeMain/okio/-Cinterop.kt

*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/internal/-Path.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jsMain/okio/FileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeMain/okio/-PosixVariant.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeTest/okio/NativeSystemFileSystemTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Hmac.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/Path.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/FileSystemJavaTest.java

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/unixMain/okio/-UnixPosixVariant.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeMain/okio/FileSource.kt

*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/HashingSink.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/linuxX64Main/okio/-LinuxX64PosixVariant.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonTest/okio/UnsafeCursorTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/appleMain/okio/-ApplePosixVariant.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeMain/okio/PosixFileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nonJvmMain/okio/HashingSource.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/internal/Hmac.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/nativeMain/okio/FileSink.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/JvmTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/appleMain/okio/ByteString.kt

*
 /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/Path.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/mingwX64Main/okio/-WindowsPosixVariant.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/internal/HmacTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/appleTest/okio/AppleByteStringTest.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/NioSystemFileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/ZipFileSystemJavaTest.java

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmMain/okio/JvmSystemFileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/commonMain/okio/FileSystem.kt

* /opt/cola/permits/1310287373_1650320542.41/0/okio-3-0-0-sources-jar/jvmTest/okio/JvmSystemFileSystemTest.kt

1.21 protobuf-java 3.20.1
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* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/source_context.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/wrappers.proto

*
 /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/any.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/descriptor.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/struct.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/timestamp.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/api.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/compiler/plugin.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/type.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/duration.proto

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/google/protobuf/field_mask.proto

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Manifest-Version: 1.0

Automatic-Module-Name: com.google.protobuf

Bnd-LastModified: 1650575142706

Build-Jdk: 1.8.0_181-google-v7

Built-By: haberman

Bundle-Description: Core Protocol Buffers library. Protocol Buffers are

a way of encoding structured data in an   efficient yet extensible for
mat.

Bundle-DocURL: https://developers.google.com/protocol-buffers/

Bundle-License: https://opensource.org/licenses/BSD-3-Clause

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Core]

Bundle-SymbolicName: com.google.protobuf

Bundle-Version: 3.20.1

Created-By: Apache Maven Bundle Plugin

Export-Package: com.google.protobuf;version="3.20.1"

Import-Package: sun.misc;resolution:=optional,com.google.protobuf;versio
n="[3.20,4)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1483182498_1669147240.6581564/0/protobuf-java-3-20-1-3-jar/META-INF/MANIFEST.MF

1.22 constraintlayout 2.1.4

1.22.1 Available under license :

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jar/androidx/constraintlayout/widget/ConstraintAttribute.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/Constraints.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/Placeholder.java

*

/opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/Barrier.java

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* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/TransitionAdapter.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/OnSwipe.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/Group.java
*
 /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/MotionPlaceholder.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/Layer.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionHelper.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MockView.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintHelper.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewState.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/CircularFlow.java

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* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintsChangedListener.java
*
 /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionLayout.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyTimeCycle.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyPosition.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyTrigger.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyFrames.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionScene.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Key.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/TouchResponse.java
*
 /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintProperties.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Debug.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/ImageFilterView.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyCycle.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MotionTelltales.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/StateSet.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-

jar/androidx/constraintlayout/motion/widget/KeyPositionBase.java

*

 /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/utils/StopLogic.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/widget/MotionController.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/VirtualLayout.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/widget/DesignTool.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/widget/KeyAttributes.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/utils/widget/ImageFilterButton.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/widget/MotionPaths.java

*

 /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/ConstraintLayoutStates.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/widget/CustomFloatAttributes.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/widget/MotionConstrainedPoint.java

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jar/androidx/constraintlayout/motion/utils/ViewOscillator.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/helper/widget/MotionEffect.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/widget/ReactiveGuide.java

*
  /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/ViewTransition.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewTimeCycle.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MotionButton.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewSpline.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/ViewTransitionController.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/FloatLayout.java
*
  /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MotionLabel.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/SharedValues.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/Carousel.java
* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionHelperInterface.java
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jar/androidx/constraintlayout/widget/ConstraintLayout.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
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jar/androidx/constraintlayout/motion/widget/TransitionBuilder.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/helper/widget/Flow.java

* /opt/cola/permits/1493901549_1677032761.60819/0/constraintlayout-2-1-4-sources-
jar/androidx/constraintlayout/motion/widget/MotionInterpolator.java

1.23 safestring 2.0

1.23.1 Available under license :

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```
/*------------------------------------------------------------------
 * strstr_s.c
 *
 * November 2008, Bo Berry
 *
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 *------------------------------------------------------------------
 */
```

Found in path(s):
* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strstr_s.c

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```
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 * safe_string.h
 *
 * November 2008, Bo Berry
 *
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 *------------------------------------------------------------------
 */
```

Found in path(s):
* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_string.h

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/*--
* mem_primitives_lib.c - Unguarded Memory Copy Routines
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* February 2005, Bo Berry
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*/

Found in path(s):
* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-
gz/safe_lib_2_0/src/safe_string/mem_primitives_lib.c
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/*--
* strcat_s.c
*
* October 2008, Bo Berry
*
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*/

Found in path(s):

* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-
gz/safe_lib_2_0/src/safe_string/strcat_s.c
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/*---
* strpbrk_s.c
*
* November 2008, Bo Berry
*
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*/

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* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-
gz/safe_lib_2_0/src/safe_string/strpbrk_s.c
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/*---
* safe_str_constraint.h
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* October 2008, Bo Berry
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Found in path(s):
* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-
gz/safe_lib_2_0/src/safe_string/safe_str_constraint.h
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/*--
* strisuppercase_s.c
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* October 2008, Bo Berry
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* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-
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* mem_primitives_lib.h - Unguarded Memory Copy Routines
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* October 2005, Bo Berry
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* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/mem_primitives_lib.h

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```
/*---------------------------------------------------------------
* safe_mem_constraint.h
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Found in path(s):

* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/safe_mem_constraint.h

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```
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* safe_limits.h -- limits include for portability
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* safe_types.h -- types include for portability
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* March 2007, Bo Berry
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* strzero_s.c
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* October 2008, Bo Berry
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*
*---
*/

Found in path(s):
* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-
gz/safe_lib_2_0/src/safe_string/strzero_s.c
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/*---
* strncat_s.c
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 * safe_lib.h -- library include for portability
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/*--
 * safe_str_lib.h -- Safe C Library String APIs
 *
 * October 2008, Bo Berry
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* strcpyfldin_s.c
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* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcpyfldin_s.c
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* strljustify_s.c
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```
/*--------------------------------------------------------------
 * strncpy_s.c
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 */
```

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```
/*--------------------------------------------------------------
 * strlastchar_s.c
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 *
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 */
```

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```
/*--------------------------------------------------------------
 * safe_mem_lib.h -- Safe C Library Memory APIs
 *
 * October 2008, Bo Berry
 *
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* strispassword_s.c
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* strtok_s.c
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* /opt/cola/permits/1502360938_1670536039.5216763/0/safe-lib-2-0-1-tar-
gz/safe_lib_2_0/src/safe_string/strtok_s.c
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/*--

* strspn_s.c
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/*--
* strislowercase_s.c
*
* Februay 2005, Bo Berry
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gz/safe_lib_2_0/src/safe_string/strislowercase_s.c
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* strremovews_s.c
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gz/safe_lib_2_0/src/safe_string/strremovews_s.c
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/*--
* strishex_s.c
*
* October 2008, Bo Berry

*

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/*---

* strprefix_s.c

*

* November 2008, Bo Berry

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/*---

* strlastsame_s.c

*

* November 2008, Bo Berry

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* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-jar/com/am/appcompat/app/ApplicationHolder.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-jar/com/am/appcompat/app/AppCompatDialogFragment.java
*
 /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-jar/com/am/appcompat/app/AppCompatAlertDialogFragment.java
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jar/com/am/appcompat/view/ToggleView.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/dialog/MaterialAlertDialog.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/FloatingActionMode.java
*
 /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/OverflowListView.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/dialog/MaterialDialogFragment.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/widget/ShapeableImageView.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/app/PendingIntentCompat.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/LayoutParams.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/dialog/MaterialDialog.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/app/ToolbarDelegate.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/storage/StorageManagerCompat.java
*
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jar/com/am/appcompat/storage/StorageVolumeCompat.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/ActionModeCompat.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/graphics/CanvasCompat.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/os/BundleCompat.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/widget/AppCompatImageView.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/dialog/MaterialDialogHelper.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/widget/DividerItemDecoration.java
* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-

jar/com/am/appcompat/view/MenuListView.java

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/opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/MainLayout.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/dialog/MaterialAlertDialogFragment.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/MenuItemView.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/widget/ImageViewHelper.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/app/BackPressedDelegate.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/app/ApplicationCompat.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/widget/AppCompatImageButton.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/ToggleLayout.java

*

/opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/FloatingPopupWindow.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/BoundsAdapter.java

* /opt/cola/permits/1549830853_1675235102.9042222/0/appcompat-1-6-0-sources-
jar/com/am/appcompat/view/BackgroundLayout.java

1.26 gson 2.10.1

1.26.1 Available under license :

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

Manifest-Version: 1.0
Created-By: 11.0.16.1 (Azul Systems, Inc.)
Build-Jdk-Spec: 11
Bnd-LastModified: 1673019830620
Bundle-ContactAddress: https://github.com/google/gson
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://w
ww.google.com"
Bundle-DocURL: https://github.com/google/gson/gson
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICEN
SE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:g
it:https://github.com/google/gson.git/gson",developer-connection="scm:g

it:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"

Bundle-SymbolicName: com.google.gson

Bundle-Vendor: Google Gson Project

Bundle-Version: 2.10.1

Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.googl

e.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.

 10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;v

ersion="2.10.1"

Import-Package: sun.misc;resolution:=optional,com.google.gson.annotation

s

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-6.4.0.202211291949

Multi-Release: true

Found in path(s):

* /opt/cola/permits/1570533427_1676891842.8285189/0/gson-2-10-1-jar/META-INF/MANIFEST.MF

1.27 okhttp 4.11.0

1.27.1 Available under license :

Note that publicsuffixes.gz is compiled from The Public Suffix List:

https://publicsuffix.org/list/public_suffix_list.dat

It is subject to the terms of the Mozilla Public License, v. 2.0:

https://mozilla.org/MPL/2.0/

1.28 openh264 3.35.0

1.28.1 Available under license :

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Jeffery Xu

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Jiessie Zhang

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Volvet Zhang

Ling Zhu

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Dong Zhang

Haibo Zhu

Huade Shi

1.29 firebase-messaging 31.4.0

1.29.1 Available under license :

---

nav_order: 1

permalink: /

Contributor documentation

This site is a collection of docs and best practices for contributors to Firebase Android SDKs.

It describes how Firebase works on Android and provides guidance on how to build/maintain a Firebase SDK.

New to Firebase?

- [Development Environment Setup]({{ site.baseurl }}{% link onboarding/env_setup.md %})

- [Creating a new SDK]({{ site.baseurl }}{% link onboarding/new_sdk.md %})

- [How Firebase works]({{ site.baseurl }}{% link how_firebase_works.md %})

---

has_children: true

permalink: /best_practices/

nav_order: 5

Best Practices

---

parent: Best Practices

Dependency Injection

While [Firebase Components]({{ site.baseurl }}{% link components/components.md %}) provides basic

Dependency Injection capabilities for interop between Firebase SDKs, it's not ideal as a general purpose

DI framework for a few reasons, to name some:

* It's verbose, i.e. requires manually specifying dependencies and constructing instances of components in

Component
 definitions.
* It has a runtime cost, i.e. initialization time is linear in the number of Components present in the graph

As a result using [Firebase Components]({{ site.baseurl }}{% link components/components.md %}) is appropriate only
for inter-SDK injection and scoping instances per `FirebaseApp`.

On the other hand, manually instantiating SDKs is often tedious, errorprone, and leads to code smells
that make code less testable and couples it to the implementation rather than the interface. For more context see
[Dependency Injection](https://en.wikipedia.org/wiki/Dependency_injection)
 and [Motivation](https://github.com/google/guice/wiki/Motivation).

{: .important }
It's recommended to use [Dagger](https://dagger.dev) for internal dependency injection within the SDKs and
[Components]({{ site.baseurl }}{% link components/components.md %}) to inject inter-sdk dependencies that are available only at
runtime into the [Dagger Graph](https://dagger.dev/dev-guide/#building-the-graph) via
[builder setters](https://dagger.dev/dev-guide/#binding-instances) or [factory
arguments](https://dagger.dev/api/latest/dagger/Component.Factory.html).

See: [Dagger docs](https://dagger.dev)
See: [Dagger tutorial](https://dagger.dev/tutorial/)

{: .highlight }
While Hilt is the recommended way to use dagger in Android applications, it's not suitable for SDK/library development.

How to get started

Since [Dagger](https://dagger.dev) does not strictly follow semver and requires the dagger-compiler version to match the dagger library version,
it's not safe to depend
 on it via a pom level dependency, see [This comment](https://github.com/firebase/firebase-android-sdk/issues/1677#issuecomment-645669608) for context. For this reason in Firebase SDKs we "vendor/repackage"
Dagger into the SDK itself under
`com.google.firebase.{sdkname}.dagger`. While it incurs in a size increase, it's usually on the order of a couple of KB and is considered
negligible.

To use Dagger in your SDK use the following in your Gradle build file:

```groovy
plugins {
  id("firebase-vendor")
}

dependencies {
```

```
    implementation(libs.javax.inject)
    vendor(libs.dagger.dagger) {
        exclude group: "javax.inject", module: "javax.inject"
    }
    annotationProcessor(libs.dagger.compiler)
}
```

General Dagger setup

As mentioned in [Firebase Components]({{ site.baseurl }}{% link components/components.md %}), all
components are scoped per `FirebaseApp`
meaning there is a single instance of the component within a given `FirebaseApp`.

This makes it a natural fit to get all
 inter-sdk dependencies and instatiate the Dagger component inside the `ComponentRegistrar`.

```kotlin
class MyRegistrar : ComponentRegistrar {
 override fun getComponents() = listOf(
  Component.builder(MySdk::class.java)
    .add(Dependency.required(FirebaseOptions::class.java))
    .add(Dependency.optionalProvider(SomeInteropDep::class.java))
    .factory(c -> DaggerMySdkComponent.builder()
      .setFirebaseApp(c.get(FirebaseApp::class.java))
      .setSomeInterop(c.getProvider(SomeInteropDep::class.java))
      .build()
      .getMySdk())
    .build()
}
```

Here's a simple way to define the dagger component:

```kotlin
@Component(modules = MySdkComponent.MainModule::class)
@Singleton
interface MySdkComponent {
 // Informs dagger that this is one of the types we want to be able to create
 // In this example we only care about MySdk
 fun getMySdk() : MySdk

 // Tells Dagger that some types are not available statically and in order to create the component
  // it needs FirebaseApp and Provider<SomeInteropDep>
 @Component.Builder
 interface Builder {
  @BindsInstance fun setFirebaseApp(app: FirebaseApp)
  @BindsInstance fun setSomeInterop(interop: com.google.firebase.inject.Provider<SomeInteropDep>)
```

```
  fun build() : MySdkComponent
 }

 @Module
 interface MainModule {
   // define module @Provides and @Binds here
 }
}
```

The only thing left to do is to properly annotate `MySdk`:

```kotlin
@Singleton
class MySdk @Inject constructor(app: FirebaseApp, interopAdapter: MySdkAdapter) {
  fun someMethod() {
     interopAdapter.doInterop()
  }
}

@Singleton
class MySdkInteropAdapter @Inject constructor(private val interop:
com.google.firebase.inject.Provider<SomeInteropDep>) {
  fun doInterop() {
     interop.get().doStuff()
  }
}
```

Scope

Unlike Component, Dagger does not use singleton scope by default and instead injects a new instance of a type at each injection point,
in the example above we want `MySdk` and
`MySdkInteropAdapter` to be singletons so they are are annotated with `@Singleton`.

See [Scoped bindings](https://dagger.dev/dev-guide/#singletons-and-scoped-bindings) for more details.

Support multiple instances of the SDK per `FirebaseApp`(multi-resource)

As mentioned in [Firebase Components]({{ site.baseurl }}{% link components/components.md %}), some SDKs support multi-resource mode,
which effectively means that there are 2 scopes at play:

1. `@Singleton` scope that the main `MultiResourceComponent` has.
2. Each instance of the sdk will have its own scope.

```mermaid

```
flowchart LR
 subgraph FirebaseApp
  direction TB
  subgraph FirebaseComponents
    direction BT
    subgraph GlobalComponents[Outside of SDK]
      direction LR

      FirebaseOptions
      SomeInterop
      Executor["@Background Executor"]
    end

    subgraph DatabaseComponent["@Singleton DatabaseMultiDb"]
      direction TB
      subgraph Singleton["@Singleton"]

SomeImpl -.-> SomeInterop
      SomeImpl -.-> Executor
    end

    subgraph Default["@DbScope SDK(default)"]
      MainClassDefault[FirebaseDatabase] --> SomeImpl
      SomeOtherImplDefault[SomeOtherImpl] -.-> FirebaseOptions
      MainClassDefault --> SomeOtherImplDefault
    end
    subgraph MyDbName["@DbScope SDK(myDbName)"]
      MainClassMyDbName[FirebaseDatabase] --> SomeImpl
      SomeOtherImplMyDbName[SomeOtherImpl] -.-> FirebaseOptions
      MainClassMyDbName --> SomeOtherImplMyDbName
    end
   end
  end
end

classDef green fill:#4db6ac
classDef blue fill:#1a73e8
class GlobalComponents green
class DatabaseComponent green
class Default blue
class MyDbName blue
```

As you can see above, `DatabaseMultiDb` and `SomeImpl` are singletons, while `FirebaseDatabase` and `SomeOtherImpl` are scoped per `database name`.

It can be easily achieved with the help of [Dagger's subcomponents](https://dagger.dev/dev-guide/subcomponents).

For
 example:

```kotlin
@Scope
annotation class DbScope

@Component(modules = DatabaseComponent.MainModule::class)
interface DatabaseComponent {
  fun getMultiDb() : DatabaseMultiDb

  @Component.Builder
  interface Builder {
    // usual setters for Firebase component dependencies
    // ...
    fun build() : DatabaseComponent
  }

  @Module(subcomponents = DbInstanceComponent::class)
  interface MainModule {}

  @Subcomponent(modules = DbInstanceComponent.InstanceModule::class)
  @DbScope
  interface DbInstanceComponent {
    fun factory() : Factory

    @Subcomponent.Factory
    interface Factory {
      fun create(@BindsInstance @Named("dbName") dbName: String)
    }
  }

  @Module
  interface InstanceModule {
    // ...
  }
}
```

Annotating `FirebaseDatabase`:

```kotlin
@DbScope
class FirebaseDatabase @Inject constructor(options: FirebaseOptions, @Named dbName: String) {
// ...
}
```

Implementing
`DatabaseMultiDb`:

```kotlin
@Singleton
class DatabaseMultiDb @Inject constructor(private val factory: DbInstanceComponent.Factory) {
 private val instances = mutableMapOf<String, FirebaseDatabase>()

 @Synchronized
 fun get(dbName: String) : FirebaseDatabase {
  if (!instances.containsKey(dbName)) {
    mInstances.put(dbName, factory.create(dbName))
  }
  return mInstances.get(dbName);
 }
}
```
---
parent: Onboarding

Creating a new Firebase SDK
{: .no_toc}

1. TOC
{:toc}

Want to create a new SDK in
[firebase/firebase-android-sdk](https://github.com/firebase/firebase-android-sdk)?
Read on.

{:toc}

Repository layout and Gradle

[firebase/firebase-android-sdk](https://github.com/firebase/firebase-android-sdk)
uses a multi-project Gradle build to organize the different libraries it hosts.
As a consequence, each project/product within this repo is hosted under its own
subdirectory with its respective build file(s).

```bash
firebase-android-sdk
buildSrc
appcheck
  firebase-appcheck
  firebase-appcheck-playintegrity
firebase-annotations
firebase-common
```

```
  firebase-common.gradle # note the name of the build file
  ktx
    ktx.gradle.kts # it can also be kts
build.gradle # root project build file.
```

Most commonly, SDKs are located as immediate child directories of the root
directory, with the directory name being the exact name of the Maven artifact ID
the
 library will have once released. e.g. `firebase-common` directory
hosts code for the `com.google.firebase:firebase-common` SDK.

{: .warning }
Note that the build file name for any given SDK is not `build.gradle` or `build.gradle.kts`
but rather mirrors the name of the sdk, e.g.
`firebase-common/firebase-common.gradle` or `firebase-common/firebase-common.gradle.kts`.

All of the core Gradle build logic lives in `buildSrc` and is used by all
SDKs.

SDKs can be grouped together for convenience by placing them in a directory of
choice.

Creating an SDK

Let's say you want to create an SDK named `firebase-foo`

1. Create a directory called `firebase-foo`.
1. Create a file `firebase-foo/firebase-foo.gradle.kts`.
1. Add `firebase-foo` line to `subprojects.cfg` at the root of the tree.

Update `firebase-foo.gradle.kts` with the following content

<details open markdown="block">
 <summary>
   firebase-foo.gradle.kts
 </summary>
```kotlin
plugins {
 id("firebase-library")
 // Uncomment
 for Kotlin
 // id("kotlin-android")
}

firebaseLibrary {
  // enable this only if you have tests in `androidTest`.
  testLab.enabled = true
```

```
  publishSources = true
  publishJavadoc = true
}

android {
 val targetSdkVersion : Int by rootProject
 val minSdkVersion : Int by rootProject

 compileSdk = targetSdkVersion
 defaultConfig {
  namespace = "com.google.firebase.foo"
  // change this if you have custom needs.
  minSdk = minSdkVersion
  targetSdk = targetSdkVersion
  testInstrumentationRunner = "androidx.test.runner.AndroidJUnitRunner"
 }

 testOptions.unitTests.isIncludeAndroidResources = true
}

dependencies {
 implementation(project(":firebase-common"))
 implementation(project(":firebase-components"))
}

```
</details>
```

Create `src/main/AndroidManifest.xml` with the following content:

<details open markdown="block">
 <summary>
  src/main/AndroidManifest.xml
 </summary>
```xml
<?xml version="1.0" encoding="utf-8"?>
<!-- Copyright {{ 'now' |
 date: "%Y" }} Google LLC -->
<!-- -->
<!-- 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. -->

<manifest xmlns:android="http://schemas.android.com/apk/res/android">
  <application>
    <service android:name="com.google.firebase.components.ComponentDiscoveryService"
      android:exported="false">
      <meta-data
        android:name="com.google.firebase.components:com.google.firebase.foo.FirebaseFooRegistrar"

        android:value="com.google.firebase.components.ComponentRegistrar" />
    </service>
  </application>
</manifest>
```

</details>

Create `com.google.firebase.foo.FirebaseFoo`

For Kotlin
<details open markdown="block">
 <summary>
   src/main/kotlin/com/google/firebase/foo/FirebaseFoo.kt
 </summary>

```kotlin
class FirebaseFoo {
 companion object {
   @JvmStatic
   val instance: FirebaseFoo
     get() = getInstance(Firebase.app)

   @JvmStatic fun getInstance(app: FirebaseApp): FirebaseFoo = app.get(FirebaseFoo::class.java)
 }
}
```

</details>

For Java
<details markdown="block">
 <summary>
   src/main/java/com/google/firebase/foo/FirebaseFoo.java
 </summary>

```java
public class FirebaseFoo {
```

```
   public static FirebaseFoo getInstance() {
     return getInstance(FirebaseApp.getInstance());
   }
   public static FirebaseFoo getInstance(FirebaseApp app) {
     return app.get(FirebaseFoo.class);
   }
 }
```

</details>

Create `com.google.firebase.foo.FirebaseFooRegistrar`

For
 Kotlin
<details open markdown="block">
 <summary>
   src/main/kotlin/com/google/firebase/foo/FirebaseFooRegistrar.kt
 </summary>

{: .warning }
You should strongly consider using [Dependency Injection]({{ site.baseurl }}{% link
best_practices/dependency_injection.md %})
to instantiate your sdk instead of manually constructing its instance in the `factory()` below.

```kotlin
class FirebaseFooRegistrar : ComponentRegistrar {
 override fun getComponents() =
   listOf(
     Component.builder(FirebaseFoo::class.java).factory { container -> FirebaseFoo() }.build(),
     LibraryVersionComponent.create("fire-foo", BuildConfig.VERSION_NAME)
   )
 }
```

</details>

For Java
<details markdown="block">
 <summary>
   src/main/java/com/google/firebase/foo/FirebaseFooRegistrar.java
 </summary>

```java
public class FirebaseFooRegistrar implements ComponentRegistrar {
 @Override
 public List<Component<?>> getComponents() {
   return Arrays.asList(
```

```
        Component.builder(FirebaseFoo.class).factory(c
 -> new FirebaseFoo()).build(),
        LibraryVersionComponent.create("fire-foo", BuildConfig.VERSION_NAME));


 }
 }
```

</details>

Continue to [How Firebase works]({{ site.baseurl }}{% link how_firebase_works.md %}).
Test license
---
has_children: true
permalink: /components/
nav_order: 4

Firebase Components
{: .no_toc}

1. TOC
{:toc}

Firebase is known for being easy to use and requiring no/minimal configuration at runtime.
Just adding SDKs to the app makes them discover each other to provide additional functionality,
e.g. `Firestore` automatically integrates with `Auth` if present in the app.

* Firebase SDKs have required and optional dependencies on other Firebase SDKs
* SDKs have different initialization requirements, e.g. `Analytics` and `Crashlytics` must be
 initialized upon application startup, while some are initialized on demand only.

To accommodate these requirements Firebase uses a component model that discovers SDKs present in the app,
determines their dependencies and provides them to dependent SDKs via a `Dependency Injection` mechanism.

This page describes the aforementioned Component Model, how it works and why it's needed.

Design Considerations

Transparent/invisible to 3p Developers

To
 provide good developer experience, we don't want developers to think about how SDKs work and interoperate
internally.
Instead we want our SDKs to have a simple API surface that hides all of the internal details.
Most products have an API surface that allows developers to get aninstance of a given SDK via
`FirebaseFoo.getInstance()`
and start using it right away.

Simple to use and integrate with for component developers

* The component model is lightweight in terms of integration effort. It is not opinionated on how components are structured.
* The component model should require as little cooperation from components runtime as possible.
* It provides component developers with an API that is easy to use correctly, and hard to use incorrectly.
* Does not sacrifice testability of individual components in isolation

Performant at startup and initialization

The runtime does as little work as possible during initialization.

What is a Component?

A Firebase Component
 is an entity that:

* Implements one or more interfaces
* Has a list of dependencies(required or optional). See [Dependencies]({{ site.baseurl }}{% link components/dependencies.md %})
* Has initialization requirements(e.g. eager in default app)
* Defines a factory creates an instance of the components interface given it's dependencies.
 (In other words describes how to create the given component.)

Example:

```java
// Defines a component that is registered as both `FirebaseAuth` and `InternalAuthProvider`.
Component<FirebaseAuth> auth = Component.builder(FirebaseAuth.class, InternalAuthProvider.class)
  // Declares dependencies
  .add(Dependency.required(FirebaseOptions.class))
  // Defines a factory
  .factory(container -> new FirebaseAuth(container.get(FirebaseOptions.class)))
  .eagerInDefaultApp() // alwaysEager() or lazy(), lazy is the default.
  .build()
```

All components are singletons within a Component Container(e.g. one instance per FirebaseApp).
There are however
 SDKs that need the ability to expose multiple objects per FirebaseApp,
for example RTBD(as well as Storage and Firestore) has multidb support which allows developers
to access one or more databases within one FirebaseApp. To address this requirement,
SDKs have to register their components in the following form(or similar):

```java
// This is the singleton holder of different instances of FirebaseDatabase.
interface RtdbComponent {
```

```
 FirebaseDatabase getDefault();
 FirebaseDatabase get(String databaseName);
}
```

As you can see in the previous section, components are just values and don't have any behavior per se,
essentially they are just blueprints of how to create them and what dependencies they need.

So there needs to be some ComponentRuntime that can discover and wire them together into a dependency graph,
in order to do that, there needs to be an agreed upon location where SDKs can register the components they provide.

The next 2 sections describe how it's done.

Component
 Registration

In order to define the `Components` an SDK provides, it needs to define a class that implements
`ComponentRegistrar`,
this class contains all component definitions the SDK wants to register with the runtime:

```java
public class MyRegistrar implements ComponentRegistrar {
 /// Returns a one or more Components that will be registered in
 /// FirebaseApp and participate in dependency resolution and injection.
 @Override
 public Collection<FirebaseComponent<?>> getComponents() {
   Arrays.asList(Component.builder(MyType.class)
     /* ... */
     .build());
 }
}
```

Component Discovery

In addition to creating the `ComponentRegistrar` class, SDKs also need to add them to their `AndroidManifest.xml`
under `ComponentDiscoveryService`:

```xml
<manifest xmlns:android="http://schemas.android.com/apk/res/android">
 <application>
   <service android:name="com.google.firebase.components.ComponentDiscoveryService"
     android:exported="false">

    <meta-data
       android:name="com.google.firebase.components:com.google.firebase.foo.FirebaseFooRegistrar"
       android:value="com.google.firebase.components.ComponentRegistrar" />
   </service>
```

```
 </application>
</manifest>
```

When the final app is built, manifest registrar entries will all end up inside the above `service` as metadata key-value pairs.
At this point `FirebaseApp` will instantiate them and use the `ComponentRuntime` to construct the component graph.

Dependency resolution and initialization

Definitions and constraints

* **Component A depends on Component B** if `B` depends on an `interface` that `A` implements.
* **For any Interface I, only one component is allowed to implement I**(with the exception of
 [Set Dependencies]({{ site.baseurl }}{% link components/dependencies.md %}#set-dependencies)). If this invariant is violated, the container will
 fail to start at runtime.
* **There must not be any dependency cycles** among components.
 See Dependency Cycle Resolution on how this limitation can
 be mitigated
* **Components are initialized lazily by default**(unless a component is declared eager) and are initialized when requested
 by an application either directly or transitively.

The initialization phase of the FirebaseApp will consist of the following steps:

1. Get a list of available FirebaseComponents that were discovered by the Discovery mechanism
2. Topologically sort components based on their declared dependencies - failing if a dependency cycle is detected or multiple implementations are registered for any interface.
3. Store a map of {iface -> ComponentFactory} so that components can be instantiated on demand(Note that component instantiation does not yet happen)
4. Initialize EAGER components or schedule them to initialize on device unlock, if in direct boot mode.

Initialization example

Below is an example illustration of the state of the component graph after initialization:

```mermaid
flowchart
 TD
   Analytics --> Installations
   Auth --> Context
   Auth --> FirebaseOptions
   Context[android.os.Context]
   Crashlytics --> Installations
   Crashlytics --> FirebaseApp
   Crashlytics --> FirebaseOptions
```

```
    Crashlytics -.-> Analytics
    Crashlytics --> Context
    Database -.-> Auth
    Database --> Context
    Database --> FirebaseApp
    Database --> FirebaseOptions
    Firestore -.-> Auth
    Messaging --> Installations
    Messaging --> FirebaseOptions
    Messaging --> Context
    RemoteConfig --> FirebaseApp
    RemoteConfig --> Context
    RemoteConfig --> Installations


    classDef eager fill:#4db66e,stroke:#4db6ac,color:#000;
    classDef transitive fill:#4db6ac,stroke:#4db6ac,color:#000;
    classDef always fill:#1a73e8,stroke:#7baaf7,color:#fff;

    class Analytics eager
    class Crashlytics eager
    class Context always
    class FirebaseOptions always
    class FirebaseApp always
    class Installations transitive
```

There are **2
 explicitly eager** components in this example: `Crashlytics` and `Analytics`.
These components are initialized when `FirebaseApp` is initialized. `Installations` is initialized eagerly because
eager components depends on it(see Prefer Lazy dependencies to avoid this as mush as possible).
`FirebaseApp`, `FirebaseOptions` and `Android Context` are always present in the Component Container and are
considered initialized as well.

*The rest of the components are left uninitialized and will remain so until the client application requests them or an
eager
component initializes them by using a Lazy dependency.*
For example, if the application calls `FirebaseDatabase.getInstance()`, the container will initialize `Auth` and
`Database`
and will return `Database` to the user.

Support multiple instances of the SDK per `FirebaseApp`(multi-resource)

Some SDKs support multi-resource mode of operation, where it's possible to create more than one instance per
`FirebaseApp`.

Examples:

* RTDB allows

more than one database in a single Firebase project, so it's possible to instantiate one instance of the sdk per datbase

```kotlin
val rtdbOne = Firebase.database(app) // uses default database
val rtdbTwo = Firebase.database(app, "dbName")
```

* Firestore, functions, and others support the same usage pattern

To allow for that, such SDKs register a singleton "MultiResource" [Firebase component]({{ site.baseurl }}{% link components/components.md %}),
which creates instances per resource(e.g. db name).

Example

```kotlin
class DatabaseComponent(private val app: FirebaseApp, private val tokenProvider: InternalTokenProvider) {
 private val instances: MutableMap<String, FirebaseDatabase> = new HashMap<>();

 @Synchronized
 fun get(dbName: String) : FirebaseDatabase {
  if (!instances.containsKey(dbName)) {
    instances.put(dbName, FirebaseDatabase(app, tokenProvider, dbName))
  }
  return instances.get(dbName);
 }
}

class FirebaseDatabase(
  app: FirebaseApp,
  tokenProvider:
 InternalTokenProvider,
  private val String dbName)

  companion object {
   fun getInstance(app : FirebaseApp) = getInstance("default")
   fun getInstance(app : FirebaseApp, dbName: String) =
     app.get(DatabaseComponent::class.java).get("default")
  }
```

title: Contributor documentation
description: Documentation and best practices for Android SDK development
logo: "https://firebase.google.com/downloads/brand-guidelines/SVG/logo-logomark.svg"

remote_theme: just-the-docs/just-the-docs@v0.4.0.rc3
plugins:

```yaml
- jekyll-remote-theme

color_scheme: light

# Aux links for the upper right navigation
aux_links:
 "SDK Github Repo":
   - "//github.com/firebase/firebase-android-sdk"

# Enable or disable the site search
# Supports true (default) or false
search_enabled: true
search:
 # Split pages into sections that can be searched individually
 # Supports 1 - 6, default: 2
 heading_level: 6
 # Maximum amount of previews per search result
 # Default: 3
 previews: 2
 # Maximum amount of words to display before a matched word in the preview
 # Default: 5
 preview_words_before: 3
 # Maximum amount of words to display after a matched word in the preview
 # Default: 10
 preview_words_after: 3
 # Set the search token separator
 # Default: /[\s\-/]+/
  # Example: enable support for hyphenated search words
 tokenizer_separator: /[\s/]+/
 # Display the relative url in search results
 # Supports true (default) or false
 rel_url: true
 # Enable or disable the search button that appears in the bottom right corner of every page
 # Supports true or false (default)
 button: false

mermaid:
 # Version of mermaid library
 # Pick an available version from https://cdn.jsdelivr.net/npm/mermaid/
 version: "9.2.2"
 # Put any additional configuration, such as setting the theme, in _includes/mermaid_config.js

# Enable or disable heading anchors
heading_anchors: true
permalink: pretty

callouts_level: quiet
callouts:
```

```yaml
highlight:
    color: yellow
  important:
    title: Important
    color: blue
  new:
    title: New
    color: green
  note:
    title: Note
    color: purple
  warning:
    title: Warning
    color: red


# Back to top link
back_to_top: true
back_to_top_text: "Back to top"

# Footer last edited timestamp
last_edit_timestamp:
 true # show or hide edit time - page must have `last_modified_date` defined in the frontmatter
last_edit_time_format: "%b %e %Y at %I:%M %p" # uses ruby's time format: https://ruby-doc.org/stdlib-
2.7.0/libdoc/time/rdoc/Time.html



# Footer "Edit this page on GitHub" link text
gh_edit_link: true # show or hide edit this page link
gh_edit_link_text: "Edit this page on GitHub"
gh_edit_repository: "https://github.com/firebase/firebase-android-sdk" # the github URL for your repo
gh_edit_branch: "master" # the branch that your docs is served from
gh_edit_source: "contributor-docs" # the source that your files originate from
gh_edit_view_mode: "edit" # "tree" or "edit" if you want the user to jump into the editor immediately
name: Copyright check

on: pull_request

concurrency:
 group: ${{ github.workflow }}-${{ github.event.pull_request.number || github.ref }}
 cancel-in-progress: true

jobs:
 copyright-check:
  runs-on: ubuntu-22.04
  steps:
   - uses: actions/checkout@v3.0.2
   - uses: actions/setup-python@v2
     with:
```

```
      python-version: '3.9'
  - run: |
      pip install -e "ci/fireci"
  - run: |
      fireci copyright_check \
        -e py              \
        -e gradle          \
        -e java            \
        -e kt            \
        -e groovy          \
        -e sh            \
        -e proto
```
---
parent: Firebase Components

Dynamic Module Support

TODO
---
parent: Firebase Components

Executors
{: .no_toc}

1. TOC
{:toc}

Intro

OS threads are a limited resource that needs to be used with care. In order to minimize the number of threads used by Firebase
as a whole and to increase resource sharing Firebase Common provides a set of standard
[executors](https://developer.android.com/reference/java/util/concurrent/Executor)
and [coroutine dispatchers](https://kotlinlang.org/api/kotlinx.coroutines/kotlinx-coroutines-core/kotlinx.coroutines/-coroutine-dispatcher/)
for use by all Firebase SDKs.

These executors are available as components and can be requested by product SDKs as component dependencies.

Example:

```java
public class MyRegistrar implements ComponentRegistrar {
 public List<Component<?>> getComponents() {
   Qualified<Executor> backgroundExecutor = Qualified.qualified(Background.class, Executor.class);
   Qualified<ExecutorService> liteExecutorService = Qualified.qualified(Lightweight.class, ExecutorService.class);
```

```
    return Collections.singletonList(
      Component.builder(MyComponent.class)
        .add(Dependency.required(backgroundExecutor))
        .add(Dependency.required(liteExecutorService))
        .factory(c -> new MyComponent(c.get(backgroundExecutor), c.get(liteExecutorService)))
        .build());
  }
}
```

All executors(with the exception of `@UiThread`) are available as the following interfaces:

* `Executor`
* `ExecutorService`
* `ScheduledExecutorService`
* `CoroutineDispatcher`

`@UiThread` is provided only as a plain `Executor`.

Validation

All SDKs have a custom linter check that detects creation of thread pools and threads,
this is to ensure SDKs use the above executors instead of creating their own.

Choose the right executor

Use the following diagram to pick the right executor for the task you have at hand.

```mermaid
flowchart TD
  Start[Start] --> DoesBlock{Does it block?}
  DoesBlock -->|No| NeedUi{Does it need to run\n on UI thread?}
  NeedUi -->
 |Yes| UiExecutor[[UiThread Executor]]
  NeedUi --> |No| TakesLong{Does it take more than\n 10ms to execute?}
  TakesLong --> |No| LiteExecutor[[Lightweight Executor]]
  TakesLong --> |Yes| BgExecutor[[Background Executor]]
  DoesBlock --> |Yes| DiskIO{Does it block only\n on disk IO?}
  DiskIO --> |Yes| BgExecutor
  DiskIO --> |No| BlockExecutor[[Blocking Executor]]


  classDef start fill:#4db6ac,stroke:#4db6ac,color:#000;
  class Start start

  classDef condition fill:#f8f9fa,stroke:#bdc1c6,color:#000;
  class DoesBlock condition;
```

```
    class NeedUi condition;
    class TakesLong condition;
    class DiskIO condition;

    classDef executor fill:#1a73e8,stroke:#7baaf7,color:#fff;
    class UiExecutor executor;
    class LiteExecutor executor;
    class BgExecutor executor;
    class BlockExecutor executor;
```

UiThread

Used to schedule tasks on application's UI thread, internally it uses a Handler to post runnables onto the main looper.

Example:

```java
//
 Java
Qualified<Executor> uiExecutor = qualified(UiThread.class, Executor.class);
```

```kotlin
// Kotlin
Qualified<CoroutineDispatcher> dispatcher = qualified(UiThread::class.java, CoroutineDispatcher::class.java);
```

Lightweight

Use for tasks that never block and don't take to long to execute. Backed by a thread pool of N threads where N is the amount of parallelism available on the device(number of CPU cores)

Example:

```java
// Java
Qualified<Executor> liteExecutor = qualified(Lightweight.class, Executor.class);
```

```kotlin
// Kotlin
Qualified<CoroutineDispatcher> dispatcher = qualified(Lightweight::class.java, CoroutineDispatcher::class.java);
```

Background

Use for tasks that may block on disk IO(use `@Blocking` for network IO or blocking on other threads).
Backed by 4 threads.

Example:

```java
// Java
Qualified<Executor> bgExecutor = qualified(Background.class, Executor.class);
```

```kotlin
// Kotlin
Qualified<CoroutineDispatcher> dispatcher
 = qualified(Background::class.java, CoroutineDispatcher::class.java);
```

Blocking

Use for tasks that can block for arbitrary amounts of time, this includes network IO.

Example:

```java
// Java
Qualified<Executor> blockingExecutor = qualified(Blocking.class, Executor.class);
```

```kotlin
// Kotlin
Qualified<CoroutineDispatcher> dispatcher = qualified(Blocking::class.java, CoroutineDispatcher::class.java);
```

Other executors

Direct executor

{: .warning }
Prefer `@Lightweight` instead of using direct executor as it could cause dead locks and stack overflows.

For any trivial tasks that don't need to run asynchronously

Example:

```kotlin
FirebaseExecutors.directExecutor()
```

Sequential Executor

When you need an executor that runs tasks sequentially and guarantees any memory access is synchronized prefer to use a sequential executor instead of creating a `newSingleThreadedExecutor()`.

Example:

```java
// Pick the appropriate underlying executor using the
 chart above
Qualified<Executor> bgExecutor = qualified(Background.class, Executor.class);
// ...
Executor sequentialExecutor = FirebaseExecutors.newSequentialExecutor(c.get(bgExecutor));
```

Proper Kotlin usage

A `CoroutineContext` should be preferred when possible over an explicit `Executor`
or `CoroutineDispatcher`. You should only use an `Executor` at the highest
(or inversely the lowest) level of your implementations. Most classes should not
be concerned with the existence of an `Executor`.

Keep in mind that you can combine `CoroutineContext` with other `CoroutineScope`
or `CoroutineContext`. And that all `suspend` functions inherent their `coroutineContext`:

```kotlin
suspend fun createSession(): Session {
 val context = backgroundDispatcher.coroutineContext + coroutineContext
 return Session(context)
}
```

To learn more, you should give the following Kotlin wiki page a read:

[Coroutine context and dispatchers](https://kotlinlang.org/docs/coroutine-context-and-dispatchers.html#dispatchers-and-threads)

##
 Testing

Using Executors in tests

`@Lightweight` and `@Background` executors have StrictMode enabled and throw exceptions on violations.
For example trying to do Network IO on either of them will throw.
With that in mind, when it comes to writing tests, prefer to use the common executors as opposed to creating
your own thread pools. This will ensure that your code uses the appropriate executor and does not slow down
all of Firebase by using the wrong one.

To do that, you should prefer relying on Components to inject the right executor even in tests.

This will ensure your tests are always using the executor that is actually used in your SDK build.
If your SDK uses Dagger, see [Dependency Injection]({{ site.baseurl }}{% link
best_practices/dependency_injection.md %})
and [Dagger's testing guide](https://dagger.dev/dev-guide/testing).

When the above is not an option, you can use `TestOnlyExecutors`, but make sure you're testing your code with

the same executor that is used in production code:

```kotlin
dependencies {
 // ...
 testImplementation(project(":integ-testing"))
 // or
 androidTestImplementation(project(":integ-testing"))
}
```

This gives access to

```java
TestOnlyExecutors.ui();
TestOnlyExecutors.background();
TestOnlyExecutors.blocking();
TestOnlyExecutors.lite();
```

Policy violations in tests

Unit tests require [Robolectric](https://github.com/robolectric/robolectric) to
function correctly, and this comes with a major drawback; no policy validation.

Robolectric supports `StrictMode`- but does not provide the backing for its
policy mechanisms to fire on violations. As such, you'll be able to do things
like using `TestOnlyExecutors.background()` to execute blocking actions; usage
that would have otherwise crashed in a real application.

Unfortunately, there is no easy way to fix this for unit tests. You can get
around the issue by moving the tests to an emulator (integration tests)- but
those can
 be more expensive than your standard unit test, so you may want to
take that into consideration when planning your testing strategy.

StandardTestDispatcher support

The [kotlin.coroutines.test](https://kotlin.github.io/kotlinx.coroutines/kotlinx-coroutines-test/)
library provides support for a number of different mechanisms in tests. Some of the more
famous features include:

- [advanceUntilIdle](https://kotlin.github.io/kotlinx.coroutines/kotlinx-coroutines-test/kotlinx.coroutines.test/-test-coroutine-scheduler/advance-until-idle.html)
- [advanceTimeBy](https://kotlin.github.io/kotlinx.coroutines/kotlinx-coroutines-test/kotlinx.coroutines.test/-test-coroutine-scheduler/advance-time-by.html)
- [runCurrent](https://kotlin.github.io/kotlinx.coroutines/kotlinx-coroutines-test/kotlinx.coroutines.test/-test-coroutine-scheduler/run-current.html)

These features are all backed by `StandardTestDispatcher`, or more appropriately,
the `TestScope` provided in a `runTest` block.

Unfortunately,
`TestOnlyExecutors` does not natively bind with `TestScope`.
Meaning, should you use `TestOnlyExecutors` in your tests- you won't be able to utilize
the features provided by `TestScope`:

```kotlin
@Test
fun doesStuff() = runTest {
  val scope = CoroutineScope(TestOnlyExecutors.background().asCoroutineDispatcher())
  scope.launch {
   // ... does stuff
  }

  runCurrent() // doesn't invoke scope ??
 }
```

To help fix this, we provide an extension method on `TestScope` called
`firebaseExecutors`. It facilitates the binding of `TestOnlyExecutors` with the
current `TestScope`.

For example, here's how you could use this extension method in a test:

```kotlin
@Test
fun doesStuff() = runTest {
  val scope = CoroutineScope(firebaseExecutors.background)
  scope.launch {
   // ... does stuff
  }

  runCurrent()
 }
```
---
nav_order: 3

How Firebase Works

Background

Eager Initialization

One of the biggest strengths for Firebase clients is the ease of integration. In a common case, a developer has very few things to do to integrate with Firebase. There is no need to initialize/configure Firebase at runtime. Firebase automatically initializes at application start and begins providing value to developers. A few notable examples:

* `Analytics` automatically tracks app events
* `Firebase Performance` automatically tracks app startup time, all network requests and screen performance
* `Crashlytics` automatically captures all application crashes, ANRs and non-fatals

This feature makes onboarding and adoption very simple. However, comes with the great responsibility of keeping the application snappy. We shouldn't slow down application startup for 3p developers as it can stand in the way of user adoption of their application.

Automatic Inter-Product Discovery

When present together in an
 application, Firebase products can detect each other and automatically provide additional functionality to the developer, e.g.:

* `Firestore` automatically detects `Auth` and `AppCheck` to protect read/write access to the database
* `Crashlytics` integrates with `Analytics`, when available, to provide additional insights into the application behavior and enables safe app rollouts

FirebaseApp at the Core of Firebase

Regardless of what Firebase SDKs are present in the app, the main initialization point of Firebase is `FirebaseApp`. It acts as a container for all SDKs, manages their configuration, initialization and lifecycle.

Initialization

`FirebaseApp` gets initialized with the help of `FirebaseApp#initializeApp()`. This happens [automatically at app startup](https://firebase.blog/posts/2016/12/how-does-firebase-initialize-on-android) or manually by the developer.

During initialization, `FirebaseApp` discovers all Firebase SDKs present in the app, determines the dependency graph between products(for inter-product functionality) and initializes `eager` products that need to start immediately, e.g. `Crashlytics` and `FirebasePerformance`.

Firebase Configuration

`FirebaseApp` contains Firebase configuration for all products to use, namely `FirebaseOptions`, which tells Firebase which `Firebase` project to talk to, which real-time database to use, etc.

Additional Services/Components

In addition to `FirebaseOptions`, `FirebaseApp` registers additional components that product SDKs can request via dependency injection. To name a few:

* `android.content.Context`(Application context)
* [Common Executors]({{ site.baseurl }}{% link components/executors.md %})
* `FirebaseOptions`
* Various internal components

Discovery and Dependency Injection

There are multiple considerations that lead to the current design of how Firebase SDKs initialize.

1. Certain SDKs need to initialize at app startup.
2. SDKs have optional dependencies on other products that
 get enabled when the developer adds the dependency to their app.

To enable this functionality, Firebase uses a runtime discovery and dependency injection framework [firebase-components](https://github.com/firebase/firebase-android-sdk/tree/master/firebase-components).

To integrate with this framework SDKs register the components they provide via a `ComponentRegistrar` and declare any dependencies they need to initialize, e.g.

```java
public class MyRegistrar implements ComponentRegistrar {
 @Override
 public List<Component<?>> getComponents() {
  return Arrays.asList(
    // declare the component
    Component.builder(MyComponent.class)
      // declare dependencies
      .add(Dependency.required(Context.class))
      .add(Dependency.required(FirebaseOptions.class))
      .add(Dependency.optionalProvider(InternalAuthProvider.class))
      // let the runtime know how to create your component.
      .factory(
        diContainer
->
          new MyComponent(
            diContainer.get(Context.class),
            diContainer.get(FirebaseOptions.class),
            diContainer.get(InternalAuthProvider.class)))
      .build());
 }
}
```

This registrar is then registered in `AndroidManifest.xml` of the SDK and is used by `FirebaseApp` to discover all components and construct the dependency graph.

More details in [Firebase Components]({{ site.baseurl }}{% link components/components.md %}).
---
parent: Onboarding

Development Environment Setup

This page describes software and configuration required to work on code in the [Firebase/firebase-android-sdk](https://github.com/firebase/firebase-android-sdk) repository.

{:toc}

JDK

The currently required version of the JDK is `11`. Any other versions are unsupported and using them could result in build failures.

Android Studio

In general, the most recent version of Android Studio should work. The version that is tested at the time of this writing is `Dolphin | 2021.3.1`.

Download it here:
[Download Android Studio](https://developer.android.com/studio)

Emulators

If you plan to run tests on emulators(you should), you should be able to install them directly from Android Studio's AVD manager.

Github (Googlers Only)

To onboard and get write access to the github repository you need to have a github account fully linked with go/github.

File a bug using this
[bug template](http://b/issues/new?component=312729&template=1016566)
 and wait
for access to be granted.

After that configure github keys as usual using this
[Github documentation page](https://docs.github.com/en/github/authenticating-to-github/connecting-to-github-with-ssh).

Importing the repository

1. Clone the repository with `git clone --recurse-submodules
   git@github.com:firebase/firebase-android-sdk.git`.
1. Open Android Studio and click "Open an existing project".
   ![Open an existing project](as_open_project.png)
1. Find the `firebase-android-sdk` directory and open.
1. To run integration/device tests you will need a `google-services.json` file.

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---
has_children: true
permalink: /onboarding/
nav_order: 2

Onboarding
---
parent: Firebase Components

Dependencies
{: .no_toc}

1. TOC
{:toc}

This page gives an overview of the different dependency types supported by the Components Framework.

Background

As discussed in [Firebase Components]({{ site.baseurl }}{% link components/components.md %}), in order

for a `Component` to be injected with the things it needs to function, it has to declare its dependencies. These dependencies are then made available and injected into `Components` at runtime.

Firebase Components provide different types of dependencies.

Lazy vs Eager dependencies

When it comes to initialize a component, there are 2 ways of provide its dependencies.

Direct Injection

With this type of injection, the component gets an instance of its dependency directly.

```kotlin
class MyComponent(private val dep : MyDep) {
 fun someMethod() {
   dep.use();
 }
}
```

As you can see above the component's dependency is passed by value directly,
which means that the dependency needs
 to be fully initialized before
it's handed off to the requesting component. As a result `MyComponent` may have to pay the cost
of initializing `MyDep` just to be created.

Lazy/Provider Injection

With this type of injection, instead of getting an instance of the dependency directly, the dependency
is passed into the `Component` with the help of a `com.google.firebase.inject.Provider`

```java
public interface Provider<T> { T get(); }
```

```kotlin
class MyComponent(private val dep : Provider<MyDep>) {
 fun someMethod() {
   // Since all components are singletons, each call to
   // get() will return the same instance.
   dep.get().use();
 }
}
```

On the surface this does not look like a big change, but it has an important side effect. In order to create
an instance of `MyComponent`, we don't need to initialize `MyDep` anymore. Instead, initialization can be

delayed until `MyDep` is actually used.

It is also benefitial to use a `Provider` in the context of [Play's dynamic
 feature delivery](https://developer.android.com/guide/playcore/feature-delivery).
See [Dynamic Module Support]({{ site.baseurl }}{% link components/dynamic_modules.md %}) for more details.

Required dependencies

This type of dependency informs the `ComponentRuntime` that a given `Component` cannot function without a
dependency.
When the dependency is missing during initialization, `ComponentRuntime` will throw a
`MissingDependencyException`.
This type of dependency is useful for built-in components that are always present like `Context`, `FirebaseApp`,
`FirebaseOptions`, [Executors]({{ site.baseurl }}{% link components/executors.md %}).

To declare a required dependency use one of the following in your `ComponentRegistrar`:

```java
 // Required directly injected dependency
 .add(Dependency.required(MyDep.class))
 // Required lazily injected dependency
 .add(Dependency.requiredProvider(MyOtherDep.class))
 .factory( c -> new MyComponent(c.get(MyDep.class), c.getProvider(MyOtherDep.class)))
  .build();
```

Optional Dependencies

This type of dependencies is useful when your `Component` can operate normally when the dependency is not
available, but can have enhanced functionality when present. e.g. `Firestore` can work without `Auth` but
provides secure database access when `Auth` is present.

To declare an optional dependency use the following in your `ComponentRegistrar`:

```java
 .add(Dependency.optionalProvider(MyDep.class))
 .factory(c -> new MyComponent(c.getProvider(MyDep.class)))
 .build();
```

The provider will return `null` if the dependency is not present in the app.

{: .warning }
When the app uses [Play's dynamic feature delivery](https://developer.android.com/guide/playcore/feature-delivery),
`provider.get()` will return your dependency when it becomes available. To support this use case, don't store
references to the result of `provider.get()` calls.

See [Dynamic Module Support]({{ site.baseurl }}{% link components/dynamic_modules.md %}) for details

{: .warning }
See Deferred dependencies if you your dependency has a callback based API

Deferred Dependencies

Useful for optional dependencies which have a listener-style API, i.e. the dependent component registers a listener with the dependency and never calls it again (instead the dependency will call the registered listener). A good example is `Firestore`'s use of `Auth`, where `Firestore` registers a token change listener to get notified when a new token is available. The problem is that when `Firestore` initializes, `Auth` may not be present in the app, and is instead part of a dynamic module that can be loaded at runtime on demand.

To solve this problem, Components have a notion of a `Deferred` dependency. A deferred is defined as follows:

```java
public interface Deferred<T> {
 interface DeferredHandler<T> {
   @DeferredApi
   void handle(Provider<T> provider);
 }

 void whenAvailable(DeferredHandler<T> handler);
}
```

To use it a component needs to
 call `Dependency.deferred(SomeType.class)`:

```kotlin
class MyComponent(deferred: Deferred<SomeType>) {
 init {
   deferred.whenAvailable { someType ->
    someType.registerListener(myListener)
   }
 }
}
```

See [Dynamic Module Support]({{ site.baseurl }}{% link components/dynamic_modules.md %}) for details

Set Dependencies

The Components Framework allows registering components to be part of a set, such components are registered explicitly to be a part of a `Set<T>` as opposed to be a unique value of `T`:

```java

```
// Sdk 1
Component.intoSet(new SomeTypeImpl(), SomeType.class);
// Sdk 2
Component.intoSetBuilder(SomeType.class)
 .add(Dependency(SomeDep.class))
 .factory(c -> new SomeOtherImpl(c.get(SomeDep.class)))
 .build();
```

With the above setup each SDK contributes a value of `SomeType` into a `Set<SomeType>` which becomes available as a
`Set` dependency.

To consume such a set the interested `Component` needs to declare a special kind of dependency in one of 2 ways:

*
 `Dependency.setOf(SomeType.class)`, a dependency of type `Set<SomeType>`.
* `Dependency.setOfProvider(SomeType.class)`, a dependency of type `Provider<Set<SomeType>>`. The advantage of this
 is that the `Set` is not initialized until the first call to `provider.get()` at which point all elements of the
 set will get initialized.

{: .warning }
Similar to optional `Provider` dependencies, where an optional dependency can become available at runtime due to
[Play's dynamic feature delivery](https://developer.android.com/guide/playcore/feature-delivery),
`Set` dependencies can change at runtime by new elements getting added to the set.
So make sure to hold on to the original `Set` to be able to observe new values in it as they are added.

Example:

```kotlin
class MyClass(private val set1: Set<SomeType>, private val set2: Provider<Set<SomeOtherType>>)
```

```java
Component.builder(MyClass.class)
  .add(Dependency.setOf(SomeType.class))
  .add(Dependency.setOfProvider(SomeOtherType.class))
  .factory(c -> MyClass(c.setOf(SomeType.class), c.setOfProvider(SomeOtherType.class)))
  .build();
```

1.30 crashlytics 31.4.0

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SDK:

protobuf-c http://code.google.com/p/protobuf-c/source/browse/trunk/LICENSE

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1.31 sipcc 12.8.0

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1.32 libxml2 2.12.5

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1.33 sqlite 3.45.2

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
```

** SQLITE_CONFIG_LOG
**
  SQLITE_CONFIG_PCACHE_HDRSZ
**
**
** 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> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**
**   [sqlite3_hard_heap_limit64()]
**   [sqlite3_memory_used()]
**   [sqlite3_memory_highwater()]
**   [sqlite3_soft_heap_limit64()]

```
**
  <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
```

** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the

** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are

** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for

** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals

```
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates
 from the 1980's.  It is in
** the public domain.
**
*************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
```

```
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
*************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file
 locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labelled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**
  *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
```

```
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.c
No license file was found, but licenses were detected in source scan.

```
/*
** 2022-11-18
**
** 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 is a SQLite extension for converting in either direction
** between a (binary) blob and base64 text. Base64 can transit a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals,
** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
 provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
```

```
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
** It will fail miserably
 if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/
/*
** 2022-11-16
**
** 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 is a utility for converting binary to base85 or vice-versa.
** It can be built as a standalone
 program or an SQLite3 extension.
**
** Much like base64 representations, base85 can be sent through a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals.
** It is not suited for unmodified use in XML-like documents.
**
** The encoding used resembles Ascii85, but was devised by the author
** (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85
** variant sources existed, in the 1984 timeframe on a VAX mainframe.
** Further, this is an independent implementation of a base85 system.
** Hence, the author has rightfully put this into the public domain.
**
** Base85 numerals are taken from the set of 7-bit USASCII codes,
** excluding control characters and Space ! " ' ( ) { | } ~ Del
** in code order representing digit values 0 to 84 (base 10.)
```

```
**
** Groups of 4 bytes, interpreted as big-endian 32-bit values,
** are represented as 5-digit base85 numbers with MS to LS digit
** order. Groups
 of 1-3 bytes are represented with 2-4 digits,
** still big-endian but 8-24 bit values. (Using big-endian yields
** the simplest transition to byte groups smaller than 4 bytes.
** These byte groups can also be considered base-256 numbers.)
** Groups of 0 bytes are represented with 0 digits and vice-versa.
** No pad characters are used; Encoded base85 numeral sequence
** (aka "group") length maps 1-to-1 to the decoded binary length.
**
** Any character not in the base85 numeral set delimits groups.
** When base85 is streamed or stored in containers of indefinite
** size, newline is used to separate it into sub-sequences of no
** more than 80 digits so that fgets() can be used to read it.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Base85 sequences can be concatenated by separating them with
** a non-base85 character; the conversion to binary
 will then
** be the concatenation of the represented binary sequences.


** The standalone program either converts base85 on stdin to create
** a binary file or converts a binary file to base85 on stdout.
** Read or make it blurt its help for invocation details.
**
** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -I$SQDIR $OPTS -fPIC -o base85.so base85.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR $OPTS -o base85.dylib base85.c
** Win32: gcc -O2
 -shared -I%SQDIR% %OPTS% -o base85.dll base85.c
** Win32: cl /Os -I%SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**
** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
```

** Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/
/* This will be more informative in a later version. */

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-
3450200/shell.c
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()]. The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
**
** SQLITE_CONFIG_LOG
**
  SQLITE_CONFIG_PCACHE_HDRSZ
**
**
** 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> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>

** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**
**   [sqlite3_hard_heap_limit64()]
**   [sqlite3_memory_used()]
**   [sqlite3_memory_highwater()]
**   [sqlite3_soft_heap_limit64()]
**
   [sqlite3_status64()]
**   )^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to

** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a

** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>

** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change

even with newer versions of SQLite.
**

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]

** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE

** <dd> These options are obsolete and should not be used by new code.

** They are retained for backwards compatibility but are now no-ops.

** </dd>
**

** [[SQLITE_CONFIG_SQLLOG]]

** <dt>SQLITE_CONFIG_SQLLOG

** <dd>This option is only available if sqlite is compiled with the

** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should

** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).

** The second should be of type (void*). The callback is invoked by the library

** in three separate circumstances, identified by the value passed as the

** fourth parameter. If the fourth parameter is 0, then the database connection

** passed as the second argument has just been opened. The third argument

** points to a buffer containing the name of the main database file. If the

** fourth parameter is 1,

 then the SQL statement that the third parameter

** points to has just been executed. Or, if the fourth parameter is 2, then

** the connection being passed as the second parameter is being closed. The

** third parameter is passed NULL In this case. An example of using this

** configuration option can be seen in the "test_sqllog.c" source file in

** the canonical SQLite source tree.</dd>
**

** [[SQLITE_CONFIG_MMAP_SIZE]]

** <dt>SQLITE_CONFIG_MMAP_SIZE

** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values

** that are the default mmap size limit (the default setting for

** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.

** ^The default setting can be overridden by each database connection using

** either the [PRAGMA mmap_size] command, or by using the

** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size

** will be silently truncated if necessary so that it does not exceed the

** compile-time maximum mmap size set by the

** [SQLITE_MAX_MMAP_SIZE]

 compile-time option.)^

** ^If either argument to this option is negative, then that argument is

** changed to its compile-time default.
**

** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]

** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE

** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is

** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro

** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value

** that specifies the maximum size of the created heap.
**

** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a

** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.h

1.34 curl 8.7.1

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1.35 fmt 10.1.1

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A. HISTORY OF THE SOFTWARE

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
   the GPL. All Python licenses, unlike the GPL, let you distribute
   a modified version without making your changes open source. The
   GPL-compatible licenses make it possible to combine Python with
   other software that is released under the GPL; the others don't.

(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.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.

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For the test\zb.c component:

```
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    ===============
```

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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
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<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />

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<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link
 href="./images/favicon.ico" rel="shortcut icon" /></head>
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<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a
href="./sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" /></div>
<div class="up"><a href="./"><img title="&lt;-" alt="&lt;-" src="./images/left.gif" /></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="./">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="./en/license.html" title="English"> en </a></p>
</div>

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```
</div>
<div class="bottomlang">
<p><span>Available Languages: </span><a href="./en/license.html" title="English"> en </a></p>
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class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
class="warning"><strong>Notice:</strong><br />This is not a Q&amp;A section. Comments
 placed here should be pointed towards suggestions on improving the documentation or server, and may be removed
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href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
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  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"><\/div>');
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    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
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  }
})(window, document);
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href="./sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--//--><![CDATA[//><!--
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</body></html>
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##

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1.41 jsoup 1.18.1

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