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Bundled Libraries:

***** Base 64 Library (base64/base64.hpp) *****

base64.hpp is a repackaging of the base64.cpp and base64.h files into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to the code are redistributed under the same license as the original, which is listed below.

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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md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch
ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****

utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <bjoern@hoehrmann.de>. See <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/> for details.

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1.5 jansson 2.10

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1.8 bouncy-castle 1.65

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1.13 openssl 1.1.1k

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1.14 guava 30.1.1-android

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```
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EnumBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableList.java
*
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingCollection.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSetMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Multisets.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Ordering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/NullsLastOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingMapEntry.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ClassToInstanceMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMapEntry.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SingletonImmutableSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedSetMultimap.java
*
* /guava-30-1-1-android-sources-jar/com/google/common/collect/TreeMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/LinkedListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Interner.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/UsingToStringOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractIterator.java
```

- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Maps.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingIterator.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ComparatorOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingMap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/SetMultimap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Lists.java
- *
- /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingMultiset.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingMultimap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Multiset.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSet.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/package-info.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingQueue.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractBiMap.java
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- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ExplicitOrdering.java
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- *
- /guava-30-1-1-android-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Multimap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/LexicographicalOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
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- * /guava-30-1-1-android-sources-jar/com/google/common/collect/BiMap.java
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- * /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/MapDifference.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractListMultimap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultimap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Multimaps.java
- *
- /guava-30-1-1-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMultiset.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Sets.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingListIterator.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Synchronized.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/CompoundOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/NaturalOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ReverseOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayListMultimap.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/NullsFirstOrdering.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingList.java
- *

/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EnumHashBiMap.java
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* /guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.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.

*/

Found in path(s):

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Partially.java

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Found in path(s):

* /guava-30-1-1-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java
 * /guava-30-1-1-android-sources-jar/com/google/common/graph/Traverser.java
 * /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
 * /guava-30-1-1-android-sources-jar/com/google/common/graph/BaseGraph.java
 *

/guava-30-1-1-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
 * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ClosingFuture.java

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 */
 /**
 * Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular
 * version.
 */

Found in path(s):

* /guava-30-1-1-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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* /guava-30-1-1-android-sources-jar/com/google/common/base/JdkPattern.java
 * /guava-30-1-1-android-sources-jar/com/google/common/base/PatternCompiler.java
 * /guava-30-1-1-android-sources-jar/com/google/common/base/CommonPattern.java
 * /guava-30-1-1-android-sources-jar/com/google/common/base/CommonMatcher.java

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* /guava-30-1-1-android-sources-jar/com/google/common/math/BigDecimalMath.java
 * /guava-30-1-1-android-sources-jar/com/google/common/io/Java8Compatibility.java
 * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
 * /guava-30-1-1-android-sources-jar/com/google/common/hash/Java8Compatibility.java
 *

/guava-30-1-1-android-sources-jar/com/google/common/math/ToDoubleRounder.java

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- */

Found in path(s):

- * /guava-30-1-1-android-sources-jar/com/google/common/collect/GwtTransient.java

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- * /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractNetwork.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
- *
 - /*
 - * /guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/graph/MapIteratorCache.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingNetwork.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardValueGraph.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/graph/NetworkBuilder.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/graph/EdgesConnecting.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java

```

* /guava-30-1-1-android-sources-jar/com/google/common/graph/ElementOrder.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableGraph.java
*
/guava-30-1-1-android-sources-jar/com/google/common/graph/GraphConstants.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/NetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
*
/guava-30-1-1-android-sources-jar/com/google/common/graph/ValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Comparators.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/GraphConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPair.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /guava-30-1-1-android-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
*
/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
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- * /guava-30-1-1-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/MacHashFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/io/ReaderInputStream.java
- *
- /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Platform.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java

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- * /guava-30-1-1-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/CompactHashing.java

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- * /guava-30-1-1-android-sources-jar/com/google/common/collect/TopKSelector.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/SuccessorsFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/Graph.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
- *

- /guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableGraph.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/Graphs.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/MutableGraph.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/Network.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/MutableNetwork.java
- * /guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableNetwork.java

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 */
```

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

Found in path(s):

- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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- * /guava-30-1-1-android-sources-jar/com/google/common/hash/ImmutableSupplier.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java

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- * /guava-30-1-1-android-sources-jar/com/google/common/net/package-info.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Atomics.java
- * /guava-30-1-1-android-sources-jar/com/google/common/base/Strings.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
- *
- * /guava-30-1-1-android-sources-jar/com/google/common/base/Ascii.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/ContiguousSet.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Monitor.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
- * /guava-30-1-1-android-sources-jar/com/google/common/base/Equivalence.java

- * /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedLists.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
- * /guava-30-1-1-android-sources-jar/com/google/common/primitives/package-info.java
- * /guava-30-1-1-android-sources-jar/com/google/common/annotations/Beta.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
- * /guava-30-1-1-android-sources-jar/com/google/common/annotations/package-info.java

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- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

- * /guava-30-1-1-android-sources-jar/com/google/common/annotations/VisibleForTesting.java

- * /guava-30-1-1-android-sources-

```

jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/AppendableWriter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Futures.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeToken.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
*
/guava-30-1-1-android-sources-jar/com/google/common/escape/CharEscaper.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/CaseFormat.java
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* the License.
*/
/*
* 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
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* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
*/

```


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*/

/**

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

* version.

*/

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* /guava-30-1-1-android-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java

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* /guava-30-1-1-android-sources-jar/com/google/common/hash/package-info.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.

*/

Found in path(s):

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Striped.java

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Found in path(s):

* /guava-30-1-1-android-sources-jar/com/google/common/collect/IndexedImmutableSet.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.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
 */

```

Found in path(s):

`/guava-30-1-1-android-sources-jar/com/google/common/collect/ObjectArrays.java`

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* /guava-30-1-1-android-sources-jar/com/google/common/collect/MultimapBuilder.java

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* /guava-30-1-1-android-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

* /guava-30-1-1-android-sources-jar/com/google/common/io/CharSource.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/CartesianList.java

*

/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java

* /guava-30-1-1-android-sources-jar/com/google/common/escape/package-info.java

* /guava-30-1-1-android-sources-jar/com/google/common/hash/LongAddable.java

* /guava-30-1-1-android-sources-jar/com/google/common/io/BaseEncoding.java

* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteSource.java

* /guava-30-1-1-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/ClassPath.java

* /guava-30-1-1-android-sources-jar/com/google/common/math/StatsAccumulator.java

* /guava-30-1-1-android-sources-jar/com/google/common/io/Closer.java

* /guava-30-1-1-android-sources-jar/com/google/common/xml/package-info.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

*

/guava-30-1-1-android-sources-jar/com/google/common/math/PairedStats.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/Invokable.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeCapture.java

* /guava-30-1-1-android-sources-jar/com/google/common/math/Stats.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/Parameter.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/Element.java

```

* /guava-30-1-1-android-sources-jar/com/google/common/cache/LongAddables.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/FileWriteMode.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/LongAddables.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteSink.java
*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/StandardSystemProperty.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CharSink.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/LinearTransformation.java
* /guava-30-1-1-android-sources-jar/com/google/common/html/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/LongAddable.java
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```

* /guava-30-1-1-android-sources-jar/com/google/common/hash/LongAdder.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/Striped64.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/LongAdder.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Striped64.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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```
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableEntry.java
* /guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/CollectPreconditions.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableCollection.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Table.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/TreeBasedTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Platform.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Tables.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/Range.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/HashBasedTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Collections2.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/StandardTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Serialization.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/PeekingIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapValues.java
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* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java

* /guava-30-1-1-android-sources-jar/com/google/common/base/MoreObjects.java

* /guava-30-1-1-android-sources-jar/com/google/common/math/Quantiles.java

* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/Subscriber.java

*

/*guava-30-1-1-android-sources-jar/com/google/common/eventbus/Dispatcher.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java

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* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractTable.java

```

* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeVisitor.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/VerifyException.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Runnables.java
*
/guava-30-1-1-android-sources-jar/com/google/common/base/Verify.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Utf8.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CharSequenceReader.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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/**
* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
* version.
*/

```

Found in path(s):

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* /guava-30-1-1-android-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java
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/**

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

* version.

*/

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* /guava-30-1-1-android-sources-jar/com/google/common/primitives/IntsMethodsForWeb.java

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* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/RowSortedTable.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java

*

/*guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSequentialIterator.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingListMultimap.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMapDifference.java

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 * /guava-30-1-1-android-sources-jar/com/google/common/net/PercentEscaper.java
 * /guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Booleans.java
 *
 /guava-30-1-1-android-sources-jar/com/google/common/base/internal/Finalizer.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Doubles.java
 * /guava-30-1-1-android-sources-jar/com/google/common/base/CharMatcher.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Floats.java
 * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Bytes.java
 * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
 * /guava-30-1-1-android-sources-jar/com/google/common/collect/FluentIterable.java
 * /guava-30-1-1-android-sources-jar/com/google/common/base/Stopwatch.java
 * /guava-30-1-1-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Shorts.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Ints.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Chars.java
 *
 /guava-30-1-1-android-sources-jar/com/google/common/io/MultiReader.java
 * /guava-30-1-1-android-sources-jar/com/google/common/base/Joiner.java
 * /guava-30-1-1-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
 * /guava-30-1-1-android-sources-jar/com/google/common/primitives/Longs.java
 * /guava-30-1-1-android-sources-jar/com/google/common/net/InetAddresses.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/RangeSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterables.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/GeneralRange.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Count.java

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* /guava-30-1-1-android-sources-jar/com/google/common/io/Resources.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java
*
/guava-30-1-1-android-sources-jar/com/google/common/base/Suppliers.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Charsets.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LineReader.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CharStreams.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Predicate.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteStreams.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Primitives.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LineBuffer.java

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* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Predicates.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Functions.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/AbstractIterator.java
*
/guava-30-1-1-android-sources-jar/com/google/common/base/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/HashBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableReference.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/Subscribe.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Objects.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Supplier.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/MultiInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Interners.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EnumMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Defaults.java
*
/guava-30-1-1-android-sources-jar/com/google/common/base/Function.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Closeables.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Files.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/EventBus.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CountingOutputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Throwables.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CountingInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Flushables.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/package-info.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMap.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/DiscreteDomain.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableList.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableAsList.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ComputationException.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ComparisonChain.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableTable.java

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* /guava-30-1-1-android-sources-jar/com/google/common/cache/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractHasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java

- * /guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInts.java
- *
- /guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedLongs.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheLoader.java
- * /guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractCache.java
- * /guava-30-1-1-android-sources-jar/com/google/common/math/package-info.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/primitives/ParseRequest.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/Funnel.java
- * /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalNotification.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeSet.java
- *
- /guava-30-1-1-android-sources-jar/com/google/common/cache/Weigher.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
- * /guava-30-1-1-android-sources-jar/com/google/common/net/HostAndPort.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/BloomFilterStrategies.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/HashCode.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
- * /guava-30-1-1-android-sources-jar/com/google/common/math/IntMath.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/Hashing.java
- * /guava-30-1-1-android-sources-jar/com/google/common/base/Optional.java
- *
- /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
- * /guava-30-1-1-android-sources-jar/com/google/common/math/LongMath.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/BoundType.java
- * /guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedLong.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/BloomFilter.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
- * /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalListeners.java
- * /guava-30-1-1-android-sources-jar/com/google/common/collect/Queues.java
- * /guava-30-1-1-android-sources-jar/com/google/common/math/BigIntegerMath.java
- * /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheBuilderSpec.java
- * /guava-30-1-1-android-sources-jar/com/google/common/net/HttpHeaders.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
- *
- /guava-30-1-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
- * /guava-30-1-1-android-sources-jar/com/google/common/base/Ticker.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/HashingOutputStream.java
- * /guava-30-1-1-android-sources-jar/com/google/common/reflect/Types.java
- * /guava-30-1-1-android-sources-jar/com/google/common/hash/Funnels.java
- * /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FutureCallback.java
- * /guava-30-1-1-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java

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* /guava-30-1-1-android-sources-jar/com/google/common/hash/PrimitiveSink.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/HashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/DoubleMath.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalListener.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Hasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Enums.java
*
/guava-30-1-1-android-sources-jar/com/google/common/cache/LoadingCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Present.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/MathPreconditions.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheStats.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/Cache.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalCause.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
*
/guava-30-1-1-android-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Absent.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/DoubleUtils.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyContiguousSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeParameter.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
*
/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInteger.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/MediaType.java
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- * /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
 - *
 - /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableEnumMap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/DescendingMultiset.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeMap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/AllEqualOrdering.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/TreeTraverser.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableAsList.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/CompactHashMap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/TransformedIterator.java
 - *
 - /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingDeque.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/TransformedListIterator.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableList.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMultimap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/CompactHashSet.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/EvictingQueue.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredSetMultimap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
 - *
 - /guava-30-1-1-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractNavigableMap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/RangeMap.java
 - * /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimap.java
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* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java

* /guava-30-1-1-android-sources-jar/com/google/common/base/Splitter.java

* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataInput.java

*

/*guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtIncompatible.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Service.java

* /guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtCompatible.java

* /guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java

* /guava-30-1-1-android-sources-jar/com/google/common/collect/Cut.java

* /guava-30-1-1-android-sources-jar/com/google/common/escape/Escapers.java

* /guava-30-1-1-android-sources-jar/com/google/common/net/HostSpecifier.java

* /guava-30-1-1-android-sources-jar/com/google/common/cache/LocalCache.java

* /guava-30-1-1-android-sources-jar/com/google/common/io/LineProcessor.java

* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java

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*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeResolver.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/MapMaker.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/ReferenceEntry.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/InternetDomainName.java
* /guava-30-1-1-android-sources-jar/com/google/common/html/HtmlEscapers.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/DenseImmutableTable.java
*
/guava-30-1-1-android-sources-jar/com/google/common/net/UrlEscapers.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Callables.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/SignedBytes.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteProcessor.java
* /guava-30-1-1-android-sources-jar/com/google/common/xml/XmlEscapers.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/Platform.java
* /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
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 */

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* /guava-30-1-1-android-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ServiceManagerBridge.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Java8Usage.java

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1.15 Idns 1.13.1

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1.17 unbound 1.13.1

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1.18 libcxx 9.0.9svn

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1.20 google-play-services 18.0.1

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```

1.21 kotlin 1.6.10

1.21.1 Available under license :

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1.22 okio 3.0.0

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* /okio-3-0-0-sources-jar/nonJvmTest/okio/utilNonJvm.kt

* /okio-3-0-0-sources-jar/mingwX64Main/okio/WindowsFileHandle.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/FixedLengthSourceTest.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/TimeoutTest.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/internal/FixedLengthSource.kt

*

/* /okio-3-0-0-sources-jar/jvmTest/okio/ZipFileSystemTest.kt

* /okio-3-0-0-sources-jar/unixMain/okio/UnixFileHandle.kt

* /okio-3-0-0-sources-jar/nativeMain/okio/FileSystem.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/ZipBuilder.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/internal/ResourceFileSystemTest.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/internal/ResourceFileSystem.kt

* /okio-3-0-0-sources-jar/commonMain/okio/FileHandle.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/FileSystem.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/utilJvm.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/FileHandleTestingFileSystem.kt

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- * /okio-3-0-0-sources-jar/jvmTest/okio/WaitUntilNotifiedTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/HashingSink.kt
- * /okio-3-0-0-sources-jar/commonTest/okio/HashingSourceTest.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/LargeStreamsTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/Pipe.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/HashingSource.kt
- *
- /okio-3-0-0-sources-jar/commonTest/okio/HashingSinkTest.kt
- * /okio-3-0-0-sources-jar/commonMain/okio/Options.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/PipeTest.java

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- * /okio-3-0-0-sources-jar/commonMain/okio/internal/-ByteString.kt
- * /okio-3-0-0-sources-jar/commonMain/okio/-CommonPlatform.kt
- * /okio-3-0-0-sources-jar/commonTest/okio/ByteStringFactory.kt
- * /okio-3-0-0-sources-jar/commonMain/okio/internal/-Utf8.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/-JvmPlatform.kt
- * /okio-3-0-0-sources-jar/commonTest/okio/ByteStringTest.kt
- *

- /okio-3-0-0-sources-jar/nonJvmMain/okio/ByteString.kt
- * /okio-3-0-0-sources-jar/commonMain/okio/ByteString.kt
- * /okio-3-0-0-sources-jar/commonMain/okio/-Util.kt
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- * /okio-3-0-0-sources-jar/jvmMain/okio/ByteString.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/ByteStringJavaTest.java
- * /okio-3-0-0-sources-jar/commonTest/okio/HashingTest.kt

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* /okio-3-0-0-sources-jar/jvmMain/okio/internal/zip.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/internal/ZipEntry.kt

*

/okio-3-0-0-sources-jar/jvmMain/okio/ZipFileSystem.kt

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* /okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Sha512.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/internal/Md5.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/MessageDigestConsistencyTest.kt
* /okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Sha256.kt
* /okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Md5.kt
* /okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Sha1.kt
*
* /okio-3-0-0-sources-jar/jvmTest/okio/internal/Sha512.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/internal/Sha256.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/internal/Sha1.kt
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* /okio-3-0-0-sources-jar/jvmMain/okio/ForwardingTimeout.kt
* /okio-3-0-0-sources-jar/jvmMain/okio/SegmentedByteString.kt
* /okio-3-0-0-sources-jar/commonMain/okio/SegmentedByteString.kt

```

* /okio-3-0-0-sources-jar/jvmTest/okio/SegmentSharingTest.kt
* /okio-3-0-0-sources-jar/nonJvmMain/okio/SegmentedByteString.kt

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* /okio-3-0-0-sources-jar/commonMain/okio/Buffer.kt

* /okio-3-0-0-sources-jar/commonMain/okio/Okio.kt

* /okio-3-0-0-sources-jar/nonJvmMain/okio/Sink.kt

* /okio-3-0-0-sources-jar/commonMain/okio/Source.kt

* /okio-3-0-0-sources-jar/commonMain/okio/Sink.kt

*

/okio-3-0-0-sources-jar/commonMain/okio/RealBufferedSink.kt

* /okio-3-0-0-sources-jar/commonMain/okio/RealBufferedSource.kt

* /okio-3-0-0-sources-jar/commonMain/okio/internal/-Buffer.kt

* /okio-3-0-0-sources-jar/commonTest/okio/CommonRealBufferedSinkTest.kt

* /okio-3-0-0-sources-jar/commonTest/okio/AbstractBufferedSourceTest.kt

* /okio-3-0-0-sources-jar/nonJvmMain/okio/BufferedSink.kt

* /okio-3-0-0-sources-jar/commonTest/okio/BufferCommonTest.kt

* /okio-3-0-0-sources-jar/nonJvmMain/okio/BufferedSource.kt

* /okio-3-0-0-sources-jar/commonMain/okio/BufferedSink.kt

* /okio-3-0-0-sources-jar/commonTest/okio/AbstractBufferedSinkTest.kt

* /okio-3-0-0-sources-jar/nonJvmMain/okio/RealBufferedSink.kt

* /okio-3-0-0-sources-jar/commonTest/okio/CommonRealBufferedSourceTest.kt

* /okio-3-0-0-sources-jar/commonTest/okio/CommonOkioKotlinTest.kt

* /okio-3-0-0-sources-jar/commonMain/okio/Timeout.kt

* /okio-3-0-0-sources-jar/commonTest/okio/BufferedSinkFactory.kt

* /okio-3-0-0-sources-jar/nonJvmMain/okio/Timeout.kt

*

/okio-3-0-0-sources-jar/commonTest/okio/util.kt

* /okio-3-0-0-sources-jar/commonMain/okio/BufferedSource.kt

* /okio-3-0-0-sources-jar/commonTest/okio/BufferedSourceFactory.kt

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* /okio-3-0-0-sources-jar/jvmTest/okio/GzipKotlinTest.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/ByteStringKotlinTest.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/-DeprecatedUtf8.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/-DeprecatedUpgrade.kt

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/okio-3-0-0-sources-jar/jvmTest/okio/BufferCursorTest.java

* /okio-3-0-0-sources-jar/jvmTest/okio/PipeKotlinTest.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/NioTest.java

* /okio-3-0-0-sources-jar/jvmTest/okio/BufferKotlinTest.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/ThrottlerTest.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/ThrottlerTakeTest.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/DeflateKotlinTest.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/Throttler.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/BufferCursorKotlinTest.kt

* /okio-3-0-0-sources-jar/commonMain/okio/PeekSource.kt

* /okio-3-0-0-sources-jar/commonTest/okio/CommonOptionsTest.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/ForwardingTimeoutTest.java

* /okio-3-0-0-sources-jar/jvmTest/okio/OkioKotlinTest.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/-DeprecatedOkio.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/Stopwatch.kt

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- * /okio-3-0-0-sources-jar/jvmMain/okio/GzipSink.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/RealBufferedSource.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/BufferedSinkTest.java
- * /okio-3-0-0-sources-jar/jvmTest/okio/TestUtil.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/AsyncTimeout.kt
- *
- /okio-3-0-0-sources-jar/jvmMain/okio/BufferedSink.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/GzipSource.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/OkioTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/BufferedSource.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/Timeout.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/SocketTimeoutTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/Buffer.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/BufferedSinkJavaTest.java
- * /okio-3-0-0-sources-jar/commonTest/okio/MockSink.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/GzipSinkTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/ForwardingSource.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/DeflaterSinkTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/DeflaterSink.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/AsyncTimeoutTest.java
- * /okio-3-0-0-sources-jar/jvmTest/okio/ReadUtf8LineTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/ForwardingSink.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/SegmentPool.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/GzipSourceTest.java
- *
- /okio-3-0-0-sources-jar/jvmMain/okio/InflaterSource.kt
- * /okio-3-0-0-sources-jar/jvmMain/okio/JvmOkio.kt
- * /okio-3-0-0-sources-jar/nonJvmMain/okio/SegmentPool.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/BufferedSourceTest.java
- * /okio-3-0-0-sources-jar/commonTest/okio/CommonBufferTest.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/BufferedSourceJavaTest.java
- * /okio-3-0-0-sources-jar/jvmMain/okio/Sink.kt
- * /okio-3-0-0-sources-jar/commonMain/okio/SegmentPool.kt
- * /okio-3-0-0-sources-jar/jvmTest/okio/Utf8Test.java

* /okio-3-0-0-sources-jar/jvmTest/okio/InflaterSourceTest.java
* /okio-3-0-0-sources-jar/jvmTest/okio/BufferTest.java
* /okio-3-0-0-sources-jar/jvmMain/okio/RealBufferedSink.kt
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* /okio-3-0-0-sources-jar/jvmTest/okio/internal/HashFunction.kt

* /okio-3-0-0-sources-jar/jvmMain/okio/CipherSink.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/CipherAlgorithm.kt

* /okio-3-0-0-sources-jar/jvmTest/okio/CipherSinkTest.kt

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/okio-3-0-0-sources-jar/jvmTest/okio/CipherSourceTest.kt

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- * /okio-3-0-0-sources-jar/commonMain/okio/internal/-RealBufferedSink.kt
- * /okio-3-0-0-sources-jar/commonMain/okio/internal/-SegmentedByteString.kt

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*/

Found in path(s):

- * /okio-3-0-0-sources-jar/commonTest/okio/FakeFileSystemTest.kt

- * /okio-3-0-0-sources-jar/commonMain/okio/HashingSource.kt

- * /okio-3-0-0-sources-jar/mingwX64Main/okio/-Windows.kt

- * /okio-3-0-0-sources-jar/commonTest/okio/PathTest.kt

- * /okio-3-0-0-sources-jar/commonMain/okio/HashingSink.kt

- * /okio-3-0-0-sources-jar/commonMain/okio/FileMetadata.kt

*

- * /okio-3-0-0-sources-jar/commonTest/okio/ForwardingFileSystemTest.kt

- * /okio-3-0-0-sources-jar/commonMain/okio/Path.kt

- * /okio-3-0-0-sources-jar/sizet64Main/okio/-Sizet64.kt

- * /okio-3-0-0-sources-jar/jsMain/okio/-JsPlatform.kt

- * /okio-3-0-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt

- * /okio-3-0-0-sources-jar/sizet32Main/okio/-Sizet32.kt

- * /okio-3-0-0-sources-jar/nativeMain/okio/-Cinterop.kt

- * /okio-3-0-0-sources-jar/commonMain/okio/internal/-Path.kt

- * /okio-3-0-0-sources-jar/jsMain/okio/FileSystem.kt

- * /okio-3-0-0-sources-jar/nativeMain/okio/-PosixVariant.kt

- * /okio-3-0-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt

- * /okio-3-0-0-sources-jar/nativeTest/okio/NativeSystemFileSystemTest.kt

- * /okio-3-0-0-sources-jar/nonJvmMain/okio/internal/Hmac.kt

- * /okio-3-0-0-sources-jar/nonJvmMain/okio/Path.kt

- * /okio-3-0-0-sources-jar/jvmTest/okio/FileSystemJavaTest.java

- * /okio-3-0-0-sources-jar/unixMain/okio/-UnixPosixVariant.kt

```

* /okio-3-0-0-sources-jar/nativeMain/okio/FileSource.kt
*
/okio-3-0-0-sources-jar/nonJvmMain/okio/HashingSink.kt
* /okio-3-0-0-sources-jar/linuxX64Main/okio/-LinuxX64PosixVariant.kt
* /okio-3-0-0-sources-jar/commonTest/okio/UnsafeCursorTest.kt
* /okio-3-0-0-sources-jar/appleMain/okio/-ApplePosixVariant.kt
* /okio-3-0-0-sources-jar/nativeMain/okio/PosixFileSystem.kt
* /okio-3-0-0-sources-jar/nonJvmMain/okio/HashingSource.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/internal/Hmac.kt
* /okio-3-0-0-sources-jar/nativeMain/okio/FileSink.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/JvmTest.kt
* /okio-3-0-0-sources-jar/appleMain/okio/ByteString.kt
* /okio-3-0-0-sources-jar/jvmMain/okio/Path.kt
* /okio-3-0-0-sources-jar/mingwX64Main/okio/-WindowsPosixVariant.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/internal/HmacTest.kt
* /okio-3-0-0-sources-jar/appleTest/okio/AppleByteStringTest.kt
* /okio-3-0-0-sources-jar/jvmMain/okio/NioSystemFileSystem.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/ZipFileSystemJavaTest.java
* /okio-3-0-0-sources-jar/jvmMain/okio/JvmSystemFileSystem.kt
*
/okio-3-0-0-sources-jar/commonMain/okio/FileSystem.kt
* /okio-3-0-0-sources-jar/jvmTest/okio/JvmSystemFileSystemTest.kt

```

1.23 gson 2.8.7

1.23.1 Available under license :

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Found in path(s):

```

* /gson-2-8-7-sources-1-jar/org/immutables/gson/Gson.java
* /gson-2-8-7-sources-1-jar/org/immutables/gson/stream/JsonParserReader.java

```

```
* /gson-2-8-7-sources-1-jar/org/immutable/gson/stream/GsonMessageBodyProvider.java
* /gson-2-8-7-sources-1-jar/org/immutable/gson/stream/JsonGeneratorWriter.java
*
/gson-2-8-7-sources-1-jar/org/immutable/gson/adapters/ExpectedSubtypesAdapter.java
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Found in path(s):

```
* /gson-2-8-7-sources-1-jar/META-INF/maven/org.immutables/gson/pom.xml
```

1.24 junit 4.13.2

1.24.1 Available under license :

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1.25 protobuf-java 3.20.1

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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 format.

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;version="[3.20,4)"

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

Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /protobuf-java-3-20-1-3-jar/META-INF/MANIFEST.MF

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Found in path(s):

```
* /protobuf-java-3-20-1-3-jar/google/protobuf/empty.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/source_context.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/wrappers.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/any.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/descriptor.proto
*
* /protobuf-java-3-20-1-3-jar/google/protobuf/struct.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/timestamp.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/api.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/compiler/plugin.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/type.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/duration.proto
* /protobuf-java-3-20-1-3-jar/google/protobuf/field_mask.proto
```

1.26 constraintlayout 2.1.4

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```
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewOscillator.java
```

```

* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/MotionEvent.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ReactiveGuide.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/ViewTransition.java
*
/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewTimeCycle.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MotionButton.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewSpline.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/ViewTransitionController.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/FloatLayout.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MotionLabel.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/SharedValues.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/Carousel.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionHelperInterface.java
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Found in path(s):

```

* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintLayout.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/Guideline.java
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* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintAttribute.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/Constraints.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/Placeholder.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/Barrier.java

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* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/TransitionAdapter.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/OnSwipe.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/Group.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/MotionPlaceholder.java
*

/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/Layer.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionHelper.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MockView.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintHelper.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/ViewState.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/CircularFlow.java

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- * /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/TransitionBuilder.java
- * /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/helper/widget/Flow.java
- * /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionInterpolator.java

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```
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Animatable.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintsChangedListener.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionLayout.java
*
/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyTimeCycle.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyPosition.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyTrigger.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyFrames.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionScene.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Key.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/TouchResponse.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintProperties.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/Debug.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/ImageFilterView.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyCycle.java
*
/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/MotionTelltale.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/StateSet.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyPositionBase.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/utils/StopLogic.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionController.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/VirtualLayout.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/DesignTool.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/KeyAttributes.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/utils/widget/ImageFilterButton.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionPaths.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/widget/ConstraintLayoutStates.java
*
/constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/CustomFloatAttributes.java
* /constraintlayout-2-1-4-sources-jar/androidx/constraintlayout/motion/widget/MotionConstrainedPoint.java
```

1.27 safestring 2.0

1.27.1 Available under license :

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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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*
```

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- *-----
- */

Found in path(s):

- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_mem_lib.h

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

```
/*-----
* strljustify_s.c
*
* November 2008, Bo Berry
*
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* All rights Reserved
*-----
*/
```

Found in path(s):

- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strljustify_s.c

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

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

Found in path(s):

- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/mem_primitives_lib.c

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

Found in path(s):

- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcasestr_s.c

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

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

Found in path(s):

- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_string.h

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```
/*-----
 * strstr_s.c
 *
 * November 2008, Bo Berry
 *
 * Copyright (c) 2008-2010, 2013 by Cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strstr_s.c

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

```
/*-----
 * safe_mem_constraint.h
 *
 * October 2008, Bo Berry
 *
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- *-----
- */

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- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/safe_mem_constraint.h

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

Found in path(s):

- * /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/stremovevs_s.c

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```
/*-----
* strzero_s.c
*
* October 2008, Bo Berry
*
* Copyright (c) 2008-2010, 2013 by Cisco Systems, Inc.
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*-----
*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strzero_s.c

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

```
/*-----  
* mem_primitives_lib.h - Unguarded Memory Copy Routines  
*  
* October 2005, Bo Berry  
*  
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*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/mem_primitives_lib.h

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

```
/*-----  
* strcat_s.c  
*  
* October 2008, Bo Berry  
*  
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*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcat_s.c

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```
/*-----  
* strispassword_s.c  
*  
* October 2008, Bo Berry  
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*-----  
*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strispassword_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):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/safe_str_constraint.h

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

```
/*-----  
* strlastsame_s.c  
*  
* November 2008, Bo Berry  
*  
* Copyright (c) 2008-2010, 2013 by Cisco Systems, Inc.  
* All rights reserved  
*-----  
*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strlastsame_s.c

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

```
/*-----  
* safe_limits.h -- limits include for portability  
*  
* February 2009, Bo Berry  
*  
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*-----  
*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_limits.h

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

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

Found in path(s):

```
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strlastchar_s.c
```

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```
/*-----  
* strncat_s.c  
*  
* October 2008, Bo Berry  
*  
* Copyright (c) 2008-2010, 2013 by Cisco Systems, Inc.  
* All Rights reserved  
*-----  
*/
```

Found in path(s):

```
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strncat_s.c
```

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

Found in path(s):

```
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcpyfldin_s.c
```

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```
/*-----  
* strisupercase_s.c  
*  
* October 2008, Bo Berry  
*  
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```

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*-----

*/

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strisuppercase_s.c

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/*-----

* strislowercase_s.c

*

* February 2005, Bo Berry

*

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*-----

*/

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strislowercase_s.c

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/*-----

* safe_types.h -- types include for portability

*

* March 2007, Bo Berry

*

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*-----

*/

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_types.h

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

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strprefix_s.c

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```
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* safe_lib.h -- library include for portability  
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*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_lib.h

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```
/*-----  
* strncpy_s.c  
*  
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*-----  
*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strncpy_s.c

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```
/*-----  
* strishex_s.c  
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*/
```

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strishex_s.c

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```
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* safe_str_lib.h -- Safe C Library String APIs  
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*/

```

Found in path(s):

```
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_str_lib.h
```

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```

/*-----
* strspn_s.c
*
* November 2008, Bo Berry
*
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*-----
*/

```

Found in path(s):

```
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strspn_s.c
```

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```

/*-----
* strpbrk_s.c
*
* November 2008, Bo Berry
*
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*-----
*/

```

Found in path(s):

```
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strpbrk_s.c
```

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

```

/*-----
* strtok_s.c
*
* October 2008, Bo Berry

```

*
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* All rights reserved.
*-----
*/

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strtok_s.c

1.28 re2 2022-06-01

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1.29 appcompat 1.6.0

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 * limitations under the License.
 */
```

Found in path(s):

```
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/ToggleView.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/dialog/MaterialAlertDialog.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/FloatingActionMode.java
```

```

* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/OverflowListView.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/dialog/MaterialDialogFragment.java
*
/appcompat-1-6-0-sources-jar/com/am/appcompat/widget/ShapeableImageView.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/app/PendingIntentCompat.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/LayoutParams.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/dialog/MaterialDialog.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/app/ToolbarDelegate.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/storage/StorageManagerCompat.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/storage/StorageVolumeCompat.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/ActionModeCompat.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/graphics/CanvasCompat.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/os/BundleCompat.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/widget/AppCompatImageView.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/dialog/MaterialDialogHelper.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/widget/DividerItemDecoration.java
*
/appcompat-1-6-0-sources-jar/com/am/appcompat/view/MenuListView.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/MainLayout.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/dialog/MaterialAlertDialogFragment.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/MenuItemView.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/widget/ImageViewHelper.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/app/BackPressedDelegate.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/app/ApplicationCompat.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/widget/AppCompatImageButton.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/ToggleLayout.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/FloatingPopupWindow.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/BoundsAdapter.java
* /appcompat-1-6-0-sources-jar/com/am/appcompat/view/BackgroundLayout.java
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```

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```

Found in path(s):

- * /appcompat-1-6-0-sources-jar/com/am/appcompat/app/Fragment.java
- * /appcompat-1-6-0-sources-jar/com/am/appcompat/app/ApplicationHolder.java
- * /appcompat-1-6-0-sources-jar/com/am/appcompat/app/AppCompatDialogFragment.java
- * /appcompat-1-6-0-sources-jar/com/am/appcompat/app/AppCompatAlertDialogFragment.java
- * /appcompat-1-6-0-sources-jar/com/am/appcompat/app/AppCompatActivity.java

1.30 okhttp 4.11.0

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1.31 sqlite 3.42.0

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1.32 curl 8.1.2

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1.33openh264 3.35.0

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1.34 firebase-messaging 31.4.0

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nav_order: 1

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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.java.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 instantiate 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 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
        end
        subgraph MyDbName["@DbScope SDK(myDbName)"]
            MainClassMyDbName[FirebaseDatabase] --> SomeImpl
            SomeOtherImplMyDbName[SomeOtherImpl] -.-> FirebaseOptions
            MainClassMyDbName --> SomeOtherImplMyDbName
        end
        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 an instance 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 FirebaseAuth).

There are however

SDKs that need the ability to expose multiple objects per FirebaseAuth, for example RTBD(as well as Storage and Firestore) has multodb support which allows developers to access one or more databases within one FirebaseAuth. 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
graph 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 much 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 database

```
```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:

- 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:

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

```

```

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 = qualifiedUiThread.class, Executor.class);
```

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

```

Lightweight

Use for tasks that never block and don't take too 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 = qualifiedLightweight.class, Executor.class);
```

```kotlin
// Kotlin
Qualified<CoroutineDispatcher> dispatcher = qualifiedLightweight::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 inherit 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 beneficial 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();
```
```

1.35 openssl 1.1.1u

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