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Contents

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

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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *   a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *   the path to the annotated type argument, wildcard bound, array
   *   element type, or static inner type within 'typeRef'. May be
   *   <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *   the fist instructions corresponding to the continuous ranges
   *   that make the scope of this local variable (inclusive).
   * @param end
   *   the last instructions corresponding to the continuous ranges
   *   that make the scope of this local variable (exclusive). This
   *   array must have the same size as the 'start' array.
   * @param index
   *   the local variable's index in each range. This array must have
   *   the same size as the 'start' array.
   * @param desc
   *   the class descriptor of
the annotation class.
   */

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

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/**

   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this

   * constructor</i>. Instead, they must use the

   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

   * version.

   *

   * @param mv

   *   the

 method visitor to which this adapter delegates calls.

   * @param access

   *   the method's access flags (see {@link Opcodes}).

   * @param name

   *   the method's name.

   * @param desc

   *   the method's descriptor (see {@link Type Type}).

   * @throws IllegalStateException

   *   If a subclass calls this constructor.

   */

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

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

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Found in path(s):
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Label.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Type.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
*
 /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java

*

 /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/AdviceAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicValue.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java

*

 /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IntInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Value.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java

*

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LdcInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LineNumberNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/JarOptimizer.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifier.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceClassVisitor.java
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 /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LocalVariableNode.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
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*
 /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckFieldAdapter.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/SimpleRemapper.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Context.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Handler.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnList.java
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 /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Item.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Edge.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FrameNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ConstantPool.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java

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1.5 commons-lang3 3.7

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

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 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
 wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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

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* /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
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* /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

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 /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

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* /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
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 /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. You are attempting to create a map that may contain a non-{@code Comparable}

 * key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

 * version.

 *

 * @throws UnsupportedOperationException always

 * @deprecated Pass a key of type {@code Comparable}

 to use {@link

 *   ImmutableSortedMap#of(Comparable, Object)}.

 */

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/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/UncaughtExceptionHandlers.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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 * This following method is a modified version of one found in
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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/
```

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

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

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* /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
 */
```

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

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* /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

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 /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/cache/LongAdder.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Striped64.java
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* /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
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 /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
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* /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
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* /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
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* /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/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.
*/

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*/
/**
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
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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
* /guava-30-1-1-android-sources-jar/com/google/common/escape/Escaper.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
* /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

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 /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/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

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 /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
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* /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
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* /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
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* /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

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* /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

* /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

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 /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/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
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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
*
 /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
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* /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
* version.
*/

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* /guava-30-1-1-android-sources-jar/com/google/common/base/Java8Usage.java

1.7 json-smart 2.3

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* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONStyle.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserInputStream.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParser.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserMemory.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/CompessorMapper.java
*
 /json-smart-2-3-sources-6-jar/net/minidev/json/JSONUtil.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONStreamAwareEx.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/ParseException.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONValue.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/FakeMapper.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONAwareEx.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/BeansMapper.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserByteArray.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/JsonReaderI.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/CollectionMapper.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONStreamAware.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONNavi.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserStream.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONAware.java
*
 /json-smart-2-3-sources-6-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONObject.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/JsonReader.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JSONArray.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/JStylerObj.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/DefaultMapperCollection.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserString.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/ArraysMapper.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserBase.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java

1.8 libcxx 9.0.9svn

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1.9 libcxxabi 9.0.9svn

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1.10 jackson-databind 2.13.1

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1.11 jackson 2.13.1

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Jackson JSON processor

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

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.12 constraintlayout 2.0.1

1.12.1 Available under license :

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Found in path(s):

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/HorizontalWidgetRun
.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/VerticalWidgetRun.ja
va

*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/VirtualLayout.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyCache.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/BaselineDimensionDe
pendency.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/Dependency.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/DependencyGraph.jav
a

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/DependencyNode.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/MotionInterpolator.ja
va

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/helpers/VerticalChainReference.ja
va

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/helper/widget/Flow.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/helpers/ChainReference.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/Flow.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/WidgetRun.java

* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/GuidelineReference.ja
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/constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/ChainRun.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/helpers/AlignHorizontallyReferen
ce.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/ConstraintReference.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/helpers/HorizontalChainReference
.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/TransitionBuilder.jav
a
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/HelperReferences.java
*
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2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/RunGroup.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/HelperReference.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/DimensionDependenc
y.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/helpers/AlignVerticallyReference.j
ava
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/Dimension.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/analyzer/BasicMeasure.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/State.java
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* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/ChainTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/scout/ScoutWidget.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/WidgetContainer.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/VisibilityTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/scout/Direction.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/XmlBasedTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/Cache.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/ChainWrapContentTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/AdvancedChainTest.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/MatchConstraintTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/HistogramCounter.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/scout/Utils.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/Rectangle.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/RandomLayoutTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/ConstraintSet.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/scout/ScoutProbabilities.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/scout/Scout.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/LayoutTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/RatioTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/ArrayLinkedVariables.java

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* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/Guideline.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/OptimizedGoal.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/EquationVariableTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/ArrayRow.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/ArrayBackedVariables.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/Amount.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/OptimizationsTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/OriginalGoal.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/EquationVariable.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/LinearSystem.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/LinearSystemTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/Pools.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/SolverVariable.java
* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/ConstraintLayout.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/WidgetsPositioningTest.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/AmountTest.java

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2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/ConstraintWidgetContainer.jav

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* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/ConstraintAnchor.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/LinearEquation.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/ConstraintWidget.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/Guideline.java

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* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/SolverVariableValues.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/PriorityGoalRow.java

*

 /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/SolverVariableValuesTest.java

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* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/Placeholder.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/Barrier.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/Chain.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/GoalRow.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/HyperSpline.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/Constraints.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/CenterWrapTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/CircleTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/ConstraintAttribute.java
*
 /constraintlayout-2-0-1-zip/constraintlayout-
2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/Barrier.java
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apply plugin: 'java'
apply plugin: 'maven'

compileJava {
  targetCompatibility = 1.7
  sourceCompatibility = 1.7
}

dependencies {
  testCompile 'org.testng:testng:6.9.10'

```
}

test {
  useTestNG()

  testLogging.showStandardStreams = true
  beforeTest { descriptor ->
    logger.lifecycle("Running test: " + descriptor)
  }
  onOutput { descriptor, event ->
    logger.lifecycle("Test: " + descriptor + " output: " + event.message )
  }
}

archivesBaseName = 'constraintlayout-solver'

project.ext.pomName = 'Android ConstraintLayout Solver'
project.ext.pomDesc = 'Solver for ConstraintLayout'

task publishLocal(type: Upload) {
  configuration = configurations.archives
  repositories {
    mavenDeployer {
      repository(url: uri("$rootProject.ext.localRepo"))
      pom.project {
        name project.ext.pomName
        description project.ext.pomDesc


    url 'http://tools.android.com'
        inceptionYear '2007'

        licenses {
          license {
            name 'The Apache Software License, Version 2.0'
            url 'http://www.apache.org/licenses/LICENSE-2.0.txt'
            distribution 'repo'
          }
        }

        scm {
          url 'https://android.googlesource.com/platform/tools/sherpa'
          connection 'git://android.googlesource.com/platform/tools/sherpa.git'
        }
        developers {
          developer {
            name 'The Android Open Source Project'
          }
```

```
            }
          }
        }
      }
    }
```

Found in path(s):
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/build.gradle
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* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check00.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check03.xml
*
 /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check13.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check01.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check10.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check05.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check16.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check08.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check09.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check12.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check07.xml
*
 /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check04.xml
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/resources/check02.xml
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* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/build.gradle

* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/build.gradle

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* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/ConstraintsChangedListener.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/utils/widget/MotionTelltales.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/Oscillator.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/Optimizer.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/MonotonicCurveFit.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/Key.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/Helper.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/MotionConstrainedPoint.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyPosition.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/solver/src/test/java/android/support/constraint/solver/widgets/ChainHeadTest.java
* /constraintlayout-2-0-1-zip/constraintlayout-2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/MotionPaths.java
* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/VirtualLayout.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/utils/widget/ImageFilterButton.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/widgets/ChainHead.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/VelocityMatrix.java

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 /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/ArcCurveFit.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/StateSet.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/MotionLayout.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/Easing.java

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2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/DesignTool.java

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2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyAttributes.java

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* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/ConstraintLayoutStates.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/widget/ConstraintProperties.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/TouchResponse.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyPositionBase.jav

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* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/CurveFit.java

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2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyTimeCycle.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/Metrics.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyTrigger.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/MotionScene.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/LinearCurveFit.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/MotionController.jav
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 /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/utils/widget/ImageFilterView.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/CustomFloatAttribut
es.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyCycle.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/utils/StopLogic.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/TimeCycleSplineSet.
java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyFrames.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/constraintlayout/src/main/java/androidx/constraintlayout/motion/widget/KeyCycleOscillator.j
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2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/helpers/GuidelineReference.java

* /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/Reference.java

*

 /constraintlayout-2-0-1-zip/constraintlayout-

2.0.1/constraintlayout/solver/src/main/java/androidx/constraintlayout/solver/state/helpers/BarrierReference.java

1.13 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/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/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
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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/jvmTest/okio/BufferFactory.kt
* /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
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 /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/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

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* /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

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* /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

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 /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

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

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

* /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

*

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

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

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

* /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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* /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

1.14 gson 2.8.9

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* /gson-2-8-9-sources-2-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonScope.java
* /gson-2-8-9-sources-2-jar/com/google/gson/stream/JsonToken.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/LongSerializationPolicy.java
* /gson-2-8-9-sources-2-jar/com/google/gson/FieldAttributes.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/ConstructorConstructor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
*
 /gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java
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* /gson-2-8-9-sources-2-jar/com/google/gson/JsonObject.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java

* /gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingStrategy.java

* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/SerializedName.java

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 /gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializationContext.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/Excluder.java

* /gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingPolicy.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/$Gson$Preconditions.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializationContext.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonParseException.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/ObjectConstructor.java

* /gson-2-8-9-sources-2-jar/com/google/gson/Gson.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonIOException.java

* /gson-2-8-9-sources-2-jar/com/google/gson/reflect/TypeToken.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializer.java

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 /gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializer.java

* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Since.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonPrimitive.java

* /gson-2-8-9-sources-2-jar/com/google/gson/ExclusionStrategy.java

* /gson-2-8-9-sources-2-jar/com/google/gson/annotations/Until.java

* /gson-2-8-9-sources-2-jar/com/google/gson/InstanceCreator.java

* /gson-2-8-9-sources-2-jar/com/google/gson/JsonNull.java

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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeReader.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java

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 /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

* /gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapterFactory.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/JsonReaderInternalAccess.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapters.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java

* /gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java

* /gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeWriter.java

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* /gson-2-8-9-sources-2-jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /gson-2-8-9-sources-2-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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1.16 protobuf-java 3.17.2

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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/DynamicMessage.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/CodedInputStreamReader.java

*
 /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/GeneratedMessageInfoFactory.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ExperimentalApi.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Internal.java

* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/field_mask.proto

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageOrBuilder.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/NewInstanceSchemaLite.java

* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/descriptor.proto

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/CodedOutputStream.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageInfo.java

* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/empty.proto

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/StructuralMessageInfo.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/GeneratedMessageV3.java

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 /protobuf-java-3-17-2-sources-1-jar/google/protobuf/duration.proto

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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/LazyStringList.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ExtensionSchemas.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/BinaryWriter.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageInfoFactory.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/InvalidProtocolBufferException.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/TextFormatParseInfoTree.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MapFieldSchema.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/DescriptorMessageInfoFactory.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/LazyStringArrayList.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Message.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/FieldType.java

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 /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UnknownFieldSetLiteSchema.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageSchema.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/FieldSet.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Extension.java

* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/any.proto

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ListFieldSchema.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ExtensionSchemaLite.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/JavaType.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/RawMessageInfo.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/RepeatedFieldBuilder.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/SmallSortedMap.java

* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/api.proto

* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/wrappers.proto
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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Android.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ProtocolMessageEnum.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Schema.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MapField.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UnknownFieldSetLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/TextFormatParseLocation.java
* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/source_context.proto
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/RpcUtil.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ProtobufArrayList.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/CodedOutputStreamWriter.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageSetSchema.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ManifestSchemaFactory.java
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 /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/RpcCallback.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/AbstractMessage.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MapFieldSchemaFull.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/LongArrayList.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/GeneratedMessage.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MapEntryLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/AllocatedBuffer.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UnknownFieldSetSchema.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/RpcController.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/LazyFieldLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/SchemaFactory.java
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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MutabilityOracle.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/BooleanArrayList.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/AbstractParser.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/BlockingService.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UninitializedMessageException.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/FieldInfo.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MapFieldSchemas.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UnsafeByteOperations.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ExtensionRegistry.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/AbstractMessageLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UnknownFieldSet.java
*

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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ProtocolStringList.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/BinaryReader.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Writer.java
* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/compiler/plugin.proto

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/SingleFieldBuilder.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MapFieldSchemaLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/NewInstanceSchema.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/OneofInfo.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/RpcChannel.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/TextFormatEscaper.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/BlockingRpcChannel.java
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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/UnsafeUtil.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/DoubleArrayList.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Reader.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ByteBufferWriter.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ExtensionLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/SingleFieldBuilderV3.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Protobuf.java
* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/timestamp.proto
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ProtobufLists.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Utf8.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ServiceException.java
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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/NewInstanceSchemaFull.java
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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/CodedInputStream.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageLiteToString.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageReflection.java
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* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MessageLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/BufferAllocator.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ExtensionRegistryLite.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/TextFormat.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/NioByteString.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/DiscardUnknownFieldsParser.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/SchemaUtil.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/TypeRegistry.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/ByteOutput.java
* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/LazyField.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/Descriptors.java

*

 /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/MapFieldLite.java

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/FloatArrayList.java

* /protobuf-java-3-17-2-sources-1-jar/google/protobuf/type.proto

* /protobuf-java-3-17-2-sources-1-jar/com/google/protobuf/WireFormat.java

1.17 safestring 2.0

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```
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 * safe_mem_lib.h -- Safe C Library Memory APIs
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 * October 2008, Bo Berry
 *
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 *----------------------------------------------------------------
 */
```

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```
/*----------------------------------------------------------------
 * strljustify_s.c
 *
```

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

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/*--
* strcasestr_s.c

*

* November 2008, Bo Berry

*

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*/

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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

```
*
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*-----------------------------------------------------------------
*/
```

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```
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* 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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```
/*-----------------------------------------------------------------
* strremovews_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/strremovews_s.c
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/*--
* strzero_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/strzero_s.c
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/*--
* mem_primitives_lib.h - Unguarded Memory Copy Routines
*
* October 2005, Bo Berry
*
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*/

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

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* /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
*
* 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_str_constraint.h
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/*--
* strlastsame_s.c
*
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strlastsame_s.c
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/*--
* safe_limits.h -- limits include for portability
*
* February 2009, Bo Berry
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* strlastchar_s.c
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* /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
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/*--

* strcpyfldin_s.c
*
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcpyfldin_s.c
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/*--
* strisuppercase_s.c
*
* 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/strisuppercase_s.c
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/*--
* strislowercase_s.c
*
* Februay 2005, Bo Berry
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*/

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/*--
* safe_types.h -- types include for portability
*
* March 2007, Bo Berry
*
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*/

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/*---
* strprefix_s.c
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* November 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/strprefix_s.c
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* safe_lib.h -- library include for portability
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* February 2009, Bo Berry
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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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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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```
/*-----------------------------------------------------------------
 * safe_str_lib.h -- Safe C Library String APIs
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 * October 2008, Bo Berry
 *
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 *-----------------------------------------------------------------
 */
```

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* /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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 *-----------------------------------------------------------------
 */
```

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

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```
/*--------------------------------------------------------------
* strpbrk_s.c
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*/
```

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```
/*--------------------------------------------------------------
* strtok_s.c
*
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*--------------------------------------------------------------
*/
```

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

1.18 appcompat 1.4.2

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1.19 slf4j 2.0.7

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* /slf4j-2-0-7-sources-jar/org/forgerock/i18n/slf4j/package-info.java

1.20 openh264 3.35.0

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1.21 openssl 1.1.1u

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1.22 nimbus-jose-jwt 7.9
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1.24 crashlytics 32.0.0

1.24.1 Available under license :

---
nav_order: 1
permalink: /

Contributor documentation

This site is a collection of docs and best practices for contributors to Firebase Android SDKs.
It describes how Firebase works on Android and provides guidance on how to build/maintain a Firebase SDK.

New to Firebase?

- [Development Environment Setup]({{ site.baseurl }}{% link onboarding/env_setup.md %})
- [Creating a new SDK]({{ site.baseurl }}{% link onboarding/new_sdk.md %})
- [How Firebase works]({{ site.baseurl }}{% link how_firebase_works.md %})
---
has_children: true
permalink: /best_practices/
nav_order: 5

Best Practices

---
parent: Best Practices

Dependency Injection

While [Firebase Components]({{ site.baseurl }}{% link components/components.md %}) provides basic
Dependency Injection capabilities for interop between Firebase SDKs, it's not ideal as a general purpose
DI framework for a few reasons, to name some:

* It's verbose, i.e. requires manually specifying dependencies and constructing instances of components in
Component
 definitions.
* It has a runtime cost, i.e. initialization time is linear in the number of Components present in the graph

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

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

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

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

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

How to get started

Since [Dagger](https://dagger.dev) does not strictly follow semver and requires the dagger-compiler version to
match the dagger library version,
it's not safe to depend
 on it via a pom level dependency, see [This comment](https://github.com/firebase/firebase-android-
sdk/issues/1677#issuecomment-645669608) for context. For this reason in Firebase SDKs we "vendor/repackage"

Dagger into the SDK itself under
`com.google.firebase.{sdkname}.dagger`. While it incurs in a size increase, it's usually on the order of a couple of KB and is considered
negligible.

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

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

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

General Dagger setup

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

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

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

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

```kotlin
```

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

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

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

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

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

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

Scope

Unlike Component, Dagger does not use singleton scope by default and instead injects a new instance of a type at each injection point,
in the example above we want `MySdk` and

`MySdkInteropAdapter` to be singletons so they are are annotated with `@Singleton`.

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

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

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

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

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

       FirebaseOptions
       SomeInterop
       Executor["@Background Executor"]
     end

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

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

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

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

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

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

For
 example:

```kotlin
@Scope
annotation class DbScope

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

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

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

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

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

  @Module
  interface InstanceModule {
```

```
    // ...
  }
}
```

Annotating `FirebaseDatabase`:

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

Implementing
 `DatabaseMultiDb`:

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

 @Synchronized
 fun get(dbName: String) : FirebaseDatabase {
  if (!instances.containsKey(dbName)) {
    mInstances.put(dbName, factory.create(dbName))
  }
  return mInstances.get(dbName);
 }
}
```
Test license
---
has_children: true
permalink: /components/
nav_order: 4

Firebase Components
{: .no_toc}

1. TOC
{:toc}

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

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

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

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

Design Considerations

Transparent/invisible to 3p Developers

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

Simple to use and integrate with for component developers

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

Performant at startup and initialization

The runtime does as little work as possible during initialization.

What is a Component?

A Firebase Component
 is an entity that:

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

Example:

```java

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

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

```java
// This is the singleton holder of different instances of FirebaseDatabase.
interface RtdbComponent {
 FirebaseDatabase getDefault();
 FirebaseDatabase get(String databaseName);
}
```

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

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

The next 2 sections describe how it's done.

Component
 Registration

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

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

```
        .build());
    }
}
```

Component Discovery

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

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

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

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

Dependency resolution and initialization

Definitions and constraints

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

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

1. Get a list of available FirebaseComponents that were discovered by the Discovery mechanism

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

Initialization example

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

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


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


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

There are **2

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

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

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

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

Examples:

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

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

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

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

Example

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

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

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

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

```

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

remote_theme: just-the-docs/just-the-docs@v0.4.0.rc3
plugins:
- 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\-/]+/
```

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


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

   classDef condition fill:#f8f9fa,stroke:#bdc1c6,color:#000;
   class DoesBlock condition;
   class NeedUi condition;
   class TakesLong condition;
   class DiskIO condition;

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

UiThread

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

Example:

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

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

```
```

Lightweight

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

Example:

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

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

Background

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

Example:

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

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

Blocking

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

Example:

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

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

Other executors

Direct executor

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

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

Example:

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

Sequential Executor

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

Example:

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

Proper Kotlin usage

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

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

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

```
 return Session(context)
}
```

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

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

##
 Testing

Using Executors in tests

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

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

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

the same executor that is used in production code:

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

This gives access to

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

Policy violations in tests

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

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

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

StandardTestDispatcher support

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

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

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

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

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

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

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

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

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

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

How Firebase Works

Background

Eager Initialization

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

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

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

Automatic Inter-Product Discovery

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

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

behavior and enables safe app rollouts

FirebaseApp at the Core of Firebase

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

Initialization

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

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

Firebase Configuration

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

Additional Services/Components

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

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

Discovery and Dependency Injection

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

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

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

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

```java
public class MyRegistrar implements ComponentRegistrar {
 @Override
```

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

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

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

Development Environment Setup

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

{:toc}

JDK

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

Android Studio

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

Download it here:

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

Emulators

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

Github (Googlers Only)

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

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

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

Importing the repository

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

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---
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("com.google.firebase:firebase-common:20.4.2")
 implementation("com.google.firebase:firebase-components:17.1.5")
}
```

</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 -->
<!-- -->
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<!-- distributed under the License is distributed on an "AS IS" BASIS, -->
<!-- WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. -->
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<!-- 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 %}).
---
has_children: true
permalink: /onboarding/
nav_order: 2

Onboarding

---
parent: Firebase Components

Dependencies
{: .no_toc}

1. TOC
{:toc}

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

Background

As discussed in [Firebase Components]({{ site.baseurl }}{% link components/components.md %}), in order for a `Component` to be injected with the things it needs to function, it has to declare its dependencies. These dependencies are then made available and injected into `Components` at runtime.

Firebase Components provide different types of dependencies.

Lazy vs Eager dependencies

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

Direct Injection

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

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

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

Lazy/Provider Injection

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

```java

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

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

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

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

Required dependencies

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

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

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

Optional Dependencies

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

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

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

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

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

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

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

Deferred Dependencies

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

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

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

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

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

```kotlin
class MyComponent(deferred: Deferred<SomeType>) {
 init {
```

```
    deferred.whenAvailable { someType ->
      someType.registerListener(myListener)
    }
  }
}
```

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

Set Dependencies

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

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

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

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

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

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

Example:

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

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

1.25 kotlin 1.8.10

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  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

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

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 This option is useful when you wish to copy part of the code of
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must be distributed
 under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

 6. As an exception to the Sections above, you may also combine or
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

  c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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