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Text Part Number: 78EE117C99-1142632709
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1.4 ns-popover 0.6.8

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1.5 javassist 3.24.0-GA

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
  jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
  jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
  jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
  jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
  jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/ClassPoolTail.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/ClassPool.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/ast/ASTList.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java

1.6 jakarta-validation-api 2.0.2

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/Path.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/executable/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/valueextraction/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/PositiveOrZero.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/BootstrapConfiguration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/ContainerElementTypeDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/GroupDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/groups/ConvertGroup.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/Scope.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/Max.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/reportas/singleviolation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/ParameterNameProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/NoProviderFoundException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/validation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/ValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/NotBlank.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/spi/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/Constraint.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/Valid.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

1.7 neko-html 1.9.22
1.8 reactor-extra 3.3.3.RELEASE

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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/AbstractRetry.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/DefaultContext.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/BackoffDelay.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/RepeatContext.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Backoff.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/IterationContext.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/DefaultRepeat.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/RetryExhaustedException.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MathFlux.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Repeat.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Jitter.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Backoff.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/IterationContext.java
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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer5.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoMinMax.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function3.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/scheduler/forkjoin/ForkJoinPoolScheduler.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate7.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumFloat.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function8.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate4.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate3.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function5.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/cache/CacheFlux.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer4.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumDouble.java
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* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoAverageDouble.java
* /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate8.java
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1.9 parent-join-client 6.8.11

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* A decoder that splits the received `ByteBuf`s dynamically by the
  * value of the length field in the message. It is particularly useful when you
  * decode a binary message which has an integer header field that represents the
  * length of the message body or the whole message.
  * }

  * [LengthFieldBasedFrameDecoder] has many configuration parameters so
  * that it can decode any message with a length field, which is often seen in
  * proprietary client-server protocols. Here are some example that will give
  * you the basic idea on which option does what.
  *
  * <h3>2 bytes length field at offset 0, do not strip header</h3>

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

  * <pre>
  * <b>lengthFieldOffset</b>   = <b>0</b>
  * <b>lengthFieldLength</b>   = <b>2</b>
  * lengthAdjustment    = 0
  * initialBytesToStrip = 0 (= do not strip header)
  *
  * BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
  * +--------+----------------+      +--------+----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
  * +--------+----------------+      +--------+----------------+
  * </pre>

  * <h3>2 bytes length field at offset 0, strip header</h3>

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

  * <pre>
  * lengthFieldOffset   = 0
  * lengthFieldLength   = 2
  * lengthAdjustment    = 0
  * initialBytesToStrip = 2 (= the length of the Length field)
* BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
* +-------------------+       +-------------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +-------------------+       +-------------------+
* </pre>

* ch3>2 bytes length field at offset 0, do not strip header, the length field
  * represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * <tt>lengthAdjustment</tt>. Because the length value in this example message
  * is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> for
  * compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
* </pre>

* BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
* +-------------------+       +-------------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
* +-------------------+       +-------------------+
* </pre>

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
  * header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
  * again because the decoder always takes the length of the prepended data into
  * account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
* </pre>

* BEFORE DECODE (17 bytes)       AFTER DECODE (17 bytes)
* +-------------------+       +-------------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
* +-------------------+       +-------------------+
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

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

```
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

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

```
* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
* +----------------------------------++----------------------------------+
* | HDR1 | Length | HDR2 | Actual Content |--------+ HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------------------------++----------------------------------+
* </pre>
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

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

```
* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
* +----------------------------------++----------------------------------+
* | HDR1 | Length | HDR2 | Actual Content |--------+ HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------------------------++----------------------------------+
* </pre>
```

"2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message"
Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

\begin{verbatim}
<table>
<thead>
<tr>
<th>Header 1</th>
<th>Length</th>
<th>Header 2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x0010</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
\end{verbatim}

@see LengthFieldPrepender

*/

Found in path(s):
*/
*/
* The encoding and decoding algorithm in this class has been derived from Robert Harder's Public Domain Base64 Encoder/Decoder.

Found in path(s):
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/base64/Base64.java

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* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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/*
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
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 */

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* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/MessageAggregationException.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java

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  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
  jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
  jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
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* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
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* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Utils.java
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas
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jar/net/minidev/asm/ASMUtil.java
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2006-Jan-27

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src/base/fthash.c
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src/bdf/bdfdrivr.c
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/
Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its [[@link ChannelPipeline]].

- Sub-types

[@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:

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

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

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

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

The context object

A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the [@link ChannelPipeline] it belongs to via a context object. Using the context object, the [@link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [@link AttributeKey]s) which is specific to the handler.
* <h3>State management</h3>

* A `ChannelHandler` often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0(ChannelHandlerContext ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else if (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>

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

* <h4>Using AttributeKey</h4>

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

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

* [@code @Sharable]

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

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

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

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

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

* The [@code @Sharable] annotation

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

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

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

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

Additional resources worth reading

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

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1.36 groovy 2.5.7

1.36.1 Available under license:

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/** Java 1.5 Recognizer
 * 
 * Run `java Main [-showtree] directory-full-of-java-files`
 * 
 * [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.
*
* Run 'java Main <directory full of java files>'
*
* Contributing authors:
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  * Allan JacobsAllan.Jacobs@eng.sun.com
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  * John Pybusjohn@pybus.org
*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
* fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
* added tree construction
* fixed definition of WS,comments for mac,pc,unix newlines
* added unary plus
* Version 1.11 (Nov 20, 1998)
* Added "shutup" option to turn off last ambig warning.
* Fixed inner class def to allow named class defs as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_xxx to xxx in tree grammar.
* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
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* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
* It also had expr not type as arg; fixed it.
* Missing ! on SEMI in classBlock
* Fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
* Fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
* Screwed up rule with instanceof in it. :\ Fixed.
* Tree parser didn't like (expr).something; fixed.
*Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*Extending an interface built a wacky tree: had extra EXTENDS.
*Tree grammar didn't allow multiple superinterfaces.
*Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
*ESC lexer rule allowed 399 max not 377 max.
*java.tree.g didn't handle the expression of synchronized
*statements.
* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
*observing/combining work of Allan Jacobs and Steve
*Messick. Handles 1.3 src. Summary:
* o  primary didn't include boolean.class kind of thing
*  o  constructor calls parsed explicitly now:
*   see explicitConstructorInvocation
*  o  add strictfp modifier
*  o  missing objBlock after new expression in tree grammar
*o  fixed problem with ClassName.super.field
*  o  reordered some alternatives to make things more efficient
*  o  long and double constants were not differentiated from int/float
*  o  whitespace rule was inefficient: matched only one char
*  o  add an examples directory with some nasty 1.3 cases
*  o  made Main.java use buffered IO and a Reader for Unicode support
*o  supports UNICODE?
  * Using Unicode charVocabulary makes code file big, but only
  * in the bitsets at the end. I need to make ANTLR generate
*  unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
*Terence added in nice fixes by John Pybus concerning floating
*constants and problems with super() calls. John did a nice
*reorg of the primary/postfix expression stuff to read better
*and makes f.g.super() parse properly (it was METHOD_CALL not
*a SUPERCTOR_CALL). Also:
  *
  *o  "finally" clause was a root...made it a child of "try"
  *o  Added stuff for asserts too for Java 1.4, but *commented out*
  * as it is not backward compatible.
  *
* Version 1.20 (October 27, 2002)
*
*  Terence ended up reorging John Pybus' stuff to
*  remove some nondeterminisms and some syntactic predicates.
*  Note that the grammar is stricter now; e.g., this(...) must
* be the first statement.
*
* Ternary ?: operator wasn't working as array name:
* (isBig ? bigDigits : digits)[i];
*
* Checked parser/tree parser on source for
* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
* and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
* He found a problem/fix with floating point that start with 0
* Ray also fixed problem that (int.class) was not recognized.
* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.
*
* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
* Notes:
* o We only allow the "extends" keyword and not the "implements"
* keyword, since that's what JSR14 seems to imply.
* o Thanks to Monty Zukowski for his help on the antlr-interest
* mail list.
* o Thanks to Alan Eliasen for testing the grammar over his
* Fink source base
*
* Version 1.22 (July, 2004)
* Changes by Michael Studman to support Java 1.5 language extensions
* Notes:
* o Added support for annotations types
* o Finished off Matt Quail's generics enhancements to support bound type arguments
* o Added support for new for statement syntax
* o Added support for static import syntax
* o Added support for enum types
* o Tested against JDK 1.5 source base and source base of jdigraph project
* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
* Bug/omission fixes for Java 1.5 language support
* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
* spotting this
* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
* parameters to be recognised as type arguments.
* o Enabled type parameters on constructors, annotations on enum constants
* and package definitions
* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
* Slight refactoring of Java 1.5 language support
* o Refactored for/"foreach" productions so that original literal "for" literal
is still used but the for sub-clauses vary by token type
* o Fixed bug where type parameter was not included in generic constructor's branch of AST
* Version 1.22.3 (August 26, 2004)
* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
* and other refactorings
* o Fixed typeParameters omission in identPrimary and newStatement
* o Replaced GT reconciliation code with simple semantic predicate
* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
* o Refactored typeDefinition production and field productions to reduce duplication
* Version 1.22.4 (October 21, 2004)
* Small bug fixes
* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
* o Added typeArguments to postfixExpression productions for anonymous inner class super
* constructor invocation, e.g. new Outer().<String>super()
* o Fixed bug in array declarations identified by Geoff Roy
* Version 1.22.4.j.1
* Changes by Jeremy Rayner to support java2groovy tool
* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
* and have made some changes to enable use by java2groovy tool (Jan 2007)
* Based on an original grammar released in the PUBLIC DOMAIN
/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/AutoImplementASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/AutoImplement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/util/CharSequenceReader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/ErrorCollecting.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/NumberRange.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/AnnotationCollectorMode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/ast/tools/ClassNodeUtils.java
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  jar/org/apache/groovy/util/concurrentlinkedhashmap/Weigher.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/org/apache/groovy/util/concurrentlinkedhashmap/EvictionListener.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/org/apache/groovy/util/concurrentlinkedhashmap/Weighers.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/org/apache/groovy/util/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java

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  jar/org/apache/groovy/util/concurrentlinkedhashmap/package-info.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/org/apache/groovy/util/concurrentlinkedhashmap/LinkedDeque.java

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/messages/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/io/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/time/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/security/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/overview.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/.wrappers/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/inspect/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/package.html
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# Format: one extension on each line without the leading "+."
# Listed below are default groovy source file extensions.

# NOTE: This implementation of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.

groovy

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/** JSR-241 Groovy Recognizer.
 *
 * Run 'java Main [-showtree] directory-full-of-groovy-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
 * Contributing authors:
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* Reto Kleeb      rkleeb@hsr.ch
*
* Version 1.00 December 9, 1997 -- initial release
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*   Missing ! on SEMI in classBlock
*   fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
*   fixed: didn't like Object[].class in parser or tree parser
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*   Tree parser didn't like (expr).something; fixed.
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* Version 1.18 (August 12, 2001)
*   Terence updated to Java 2 Version 1.3 by
*   observing/combining work of Allan Jacobs and Steve
*   Messick. Handles 1.3 src.

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- primary didn't include boolean.class kind of thing
- constructor calls parsed explicitly now:
  - see explicitConstructorInvocation
- add strictfp modifier
- missing objBlock after new expression in tree grammar
- merged local class definition alternatives, moved after declaration
- fixed problem with ClassName.super.field
- reordered some alternatives to make things more efficient
- long and double constants were not differentiated from int/float
- whitespace rule was inefficient: matched only one char
- add an examples directory with some nasty 1.3 cases
- made Main.java use buffered IO and a Reader for Unicode support
- supports UNICODE?
  - Using Unicode charVocabulary makes code file big, but only
    in the bitsets at the end. I need to make ANTLR generate
    unicode bitsets more efficiently.
- Version 1.19 (April 25, 2002)
  - Terence added in nice fixes by John Pybus concerning floating
    constants and problems with super() calls. John did a nice
    reorg of the primary/postfix expression stuff to read better
    and makes f.g.super() parse properly (it was METHOD_CALL not
    a SUPER_CTOR_CALL). Also:
    - "finally" clause was a root...made it a child of "try"
    - Added stuff for asserts too for Java 1.4, but *commented out*
      as it is not backward compatible.
- Version 1.20 (October 27, 2002)
  - Terence ended up reorging John Pybus' stuff to
    remove some nondeterminisms and some syntactic predicates.
    Note that the grammar is stricter now; e.g., this(...) must
    be the first statement.
  - Trinary ?: operator wasn't working as array name:
    - (isBig ? bigDigits : digits)[i];
  - Checked parser/tree parser on source for
    - Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
    - and the 110k-line jGuru server source.
- Version 1.21 (October 17, 2003)
  - Fixed lots of problems including:
    - Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
    - He found a problem/fix with floating point that start with 0
    - Ray also fixed problem that (int.class) was not recognized.
    - Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
    - TJP fixed CHAR_LITERAL analogously.
  * Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
  * Notes:
  * o We only allow the "extends" keyword and not the "implements"
    keyword, since that's what JSR14 seems to imply.
  * o Thanks to Monty Zukowski for his help on the antlr-interest
    mail list.
  * o Thanks to Alan Eliasen for testing the grammar over his
    Fink source base

* Version 1.22 (July, 2004)
  * Changes by Michael Studman to support Java 1.5 language extensions
  * Notes:
  * o Added support for annotations types
  * o Finished off Matt Quail's generics enhancements to support bound type arguments
  * o Added support for new for statement syntax
  * o Added support for static import syntax
  * o Added support for enum types
  * o Tested against JDK 1.5 source base and source base of jdigraph project
  * o Thanks to Matt Quail for doing the hard part by doing most of the generics work

* Version 1.22.1 (July 28, 2004)
  * Bug/omission fixes for Java 1.5 language support
  * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
    spotting this
  * o Fixed bug where incorrect handling of SR and BSR tokens would cause type
    parameters to be recognised as type arguments.
  * o Enabled type parameters on constructors, annotations on enum constants
    and package definitions
  * o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua

* Version 1.22.2 (July 28, 2004)
  * Slight refactoring of Java 1.5 language support
  * o Refactored for/"foreach" productions so that original literal "for" literal
    is still used but the for sub-clauses vary by token type
  * o Fixed bug where type parameter was not included in generic constructor's branch of AST

* Version 1.22.3 (August 26, 2004)
  * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
  * and other refactorings
  * o Fixed typeParameters omission in identPrimary and newStatement
  * o Replaced GT reconciliation code with simple semantic predicate
  * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
  * o Refactored typeDefinition production and field productions to reduce duplication

* Version 1.22.4 (October 21, 2004)
  * Small bug fixes
* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
* o Added typeArguments to postfixExpression productions for anonymous inner class super
* constructor invocation, e.g. new Outer().<String>super()
* o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.g.1
* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
* and have applied the groovy.diff from java.g (1.22) by John Rose
* back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
*
* Version 1.22.4.g.2
* o mkempf, rkleeb, Dec 2007
* o fixed various rules so that they call the correct Create Method
* to make sure that the line information are correct
*
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
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# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

#global transformation for AST Builder
org.codehaus.groovy.ast.builder.AstBuilderTransformation

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
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  jar/groovy/transform/stc/PickAnyArgumentHint.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/org/codehaus/groovy/syntax/ParserException.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/builder/InitializerStrategy.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/ast/expr/AttributeExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/classgen/asm/indy/IndyCallSiteWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/AdaptingMetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/TailRecursive.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/powerassert/AssertionRenderer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/classgen/asm/indy/InvokeDynamicWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/ast stmt/AssertStatement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/IncorrectClosureArgumentsException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/ast/MixinASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/util/Reference.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/MetaBeanProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/apache/groovy/plugin/GroovyRunner.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/syntax/TokenException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/ast stmt/Statement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/IllegalPropertyAccessException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/apache/groovy/metaclass/Realm.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/antlr/GroovySourceAST.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/powerassert/SourceTextNotAvailableException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/ObjectCachedClass.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/decompiled/Annotations.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/memoize/ValueConvertible.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/Expando.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/CallSiteAwareMetaMethod.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/xml/QName.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MultipleSetterProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/NumberAwareComparator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/DefaultGroovyMethodsSupport.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/ImportNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/SourceExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/GStringExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/LongWrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/SharedVariableCollector.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/time/TimeDuration.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/AbstractInterruptibleASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/Phases.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaklass/NewInstanceMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/messages/SyntaxErrorMessage.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/options/DefaultPropertyHandler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/SourceURI.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/AutoCloneStyle.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/java/Java2GroovyConverter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/control/CompilerConfiguration.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/ast/expr/VariableExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/ast/expr/BinaryExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/Generated.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/BytecodeExpression.java
jar/org/codehaus/groovy/reflection/AccessPermissionChecker.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/Reduction.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/IfStatement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/builder/DefaultStrategy.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MetaClassImpl.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/GeneratedMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/ReadWriteLockASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/jar/groovy/lang/Script.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/jar/groovy/lang/Slf4j.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/jar/ThirdParam.java
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jar/jar/BeanUtils.java
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jar/jar/GenericsType.java
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jar/jar/NullObject.java
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jar/jar/SynchronizedStatement.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy/classgen/asm/sc/StaticTypesStatementWriter.java
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- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/io/GroovyPrintWriter.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/GroovyInterceptable.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/apache/groovy/plugin/DefaultRunners.java
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy
- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/lang/MetaClassRegistry.java
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- /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/FieldASTTransformation.java

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/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/transform/stc/SecondPassExpression.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/util/logging/Log4j2.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/tools/FileSystemCompiler.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/apache/groovy/internal/metaclass/MetaClassConstant.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/beans/DefaultPropertyReader.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/NamedDelegate.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/m12n/PropertiesModuleFactory.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/classgen/asm/OperandStack.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/transform/AutoCloneASTTransformation.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/org/codehaus/groovy/runtime/IteratorClosureAdapter.java
 */
/* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1.jar/groovy/lang/GroovyCollections.java
 */

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* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
  jar/org/springframework/security/jwt/crypto/sign/EllipticCurveKeyHelper.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
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jar/org/springframework/security/jwt/crypto/cipher/CipherMetadata.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/RsaKeyHelper.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/BinaryFormat.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/MacSigner.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/InvalidSignatureException.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/SignerVerifier.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/RsaSigner.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/AlgorithmMetadata.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/Algorithm.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/SignatureVerifier.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/JwtHelper.java
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 */

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1.40 afero v1.0.5

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1.46 commons-codec 1.13

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.min.js

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 */

(function (global, factory) {
    typeof exports === 'object' && typeof module !== 'undefined' ?
        factory(exports, require('@angular/core'), require('@angular/core/testing')) :
    typeof define === 'function' &&
        define.amd ? define('@angular/upgrade/static/testing', 
        ['exports', '@angular/core', '@angular/core/testing'], factory) :
    (global = global || self, factory((global.ng = global.ng || {},
    global.ng.upgrade = global.ng.upgrade || {},
    global.ng.upgrade.static = global.ng.upgrade.static || {},
    global.ng.upgrade.static.testing = {}),
    global.ng.core,
    global.ng.core.testing));
}(this, (function (exports, core, testing) { 'use strict';

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    */
]);

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```javascript
function getAngularJSGlobal() {
    return angular;
}

var bootstrap = function (e, modules, config) {
    angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */

function setAngularJSGlobal(ng)
    getAngularJSGlobal();

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */

function getAngularLib() {
    return
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */

function getAngularLib() {
    return
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */

function setAngularJSGlobal(ng)
```

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var INJECTOR_KEY = '$$angularInjector';
var LAZY_MODULE_REF = '$$angularLazyModuleRef';
var NG_ZONE_KEY = '$$angularNgZone';
var UPDATE_APP_TYPE_KEY = '$$angularUpgradeAppType';
var REQUIRE_INJECTOR = '?^\$^INJECTOR$^\$^';
var REQUIRE/ng_MODEL = '?ngModel$';
var UPGRADE_MODULE_NAME = '$$UpgradeModule';

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 */
var $injector = null;
var injector$1;
function $injectorFactory() {
    return $injector;
}

var AngularTestingModule = /** @class */ (function () {
    function AngularTestingModule(i) {
        injector$1 = i;
    }
    AngularTestingModule = __decorate([],
        core.NgModule({ providers: 
            [ { provide: $INJECTOR, useFactory: $injectorFactory } ] }),
        __metadata("design:paramtypes", [core.Injector])
    ), AngularTestingModule);
    return AngularTestingModule;
}());

/**
 * A helper function to use when unit testing Angular services that
 * depend upon upgraded AngularJS services. This function returns an `NgModule`
 * configured to wire up the Angular and AngularJS injectors without the need to actually
 * bootstrap an application. This makes it simpler and faster to unit test services.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be
 * instantiated as needed by the AngularJS `$injector`.
 *
 * Use the following code snippet, we are configuring the TestBed with two imports.
 * The `Ng2AppModule` is the Angular part of our hybrid application and the
 * `ng1AppModule` is the AngularJS part.
 *
 * Once this is done we can get hold of services via the Angular `Injector` as normal.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be
 * instantiated as needed by the AngularJS `$injector`.
 *
 * In the following code snippet, we are configuring the TestBed with two imports.
 * The `Ng2AppModule` is the Angular part of our hybrid application and the
 * `ng1AppModule` is the AngularJS part.
 *
 * The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the
 * responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger
 * AngularJS handlers of async events from Angular.
 *
 * The helper sets up global variables to hold the shared Angular and AngularJS injectors.
 * * Only call this helper once per spec.
 * * Do not use `createAngularTestingModule` in the same spec as
 * `createAngularJSTestingModule`.
 */

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injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services. Use the returned AngularJS module in a call to

`['angular.mocks.module']()` to include this module in the unit test injector.

In the following code snippet, we are configuring the `injector` with two modules:

- The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and
- `Ng2AppModule`, which is the Angular part.

This helper is for testing services not components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

Once this is done we can get hold of services via the AngularJS `injector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `injector`.

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

AngularJS handlers of async events from Angular: Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.
DefineProperty(exports, '__esModule', {value: true});

})

//# sourceMappingURL=upgrade-static-testing.umd.js.map

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.min.js.map

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"version":3,"file":"static.js","sources":[]...//angular1.providers.ts",".../packages/upgrade/static/module/index.ts",".../packages/upgrade/static/index.ts","

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*

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  $inject?: Function extends{$inject?: string[]}?
Ng1Token[]]: ReadonlyArray<Ng1Token>;
}

export type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
}

export interface ICompileService {
  (element: Element|NodeList|Node[]|string, transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {[slotName: string]: ILinkFn};
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  transcludeControllers?: {[key: string]: any}[];
  futureParentElement?: Node;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): Function;
  $digest(): any;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $hasChild: IScope;
  $nextSibling: IScope;
  $key: string;
  $name: any;
  $export interface ISCope extends IRootScopeService {
    $newexport interface IAngularBootstrapConfig { strictDi?: boolean;
    $directive ['$compile': IDirective.CompileFn; $controllerAs?: string;
    $bindToController?: boolean[[key: string]; string];
    $link: IDirective; $directivePrePost: any;
  }

  $moduleName: string;
  $name: any;
  $replace: boolean;
  $require: DirectiveRequireProperty;
  $restrict?: string;
  $scope: boolean[[key: string]; string];
  $template?: string;
  $function: string;
```typescript
IAngularBootstrapConfig) =>
  IInjectorService,
  module: (prefix: string, dependencies?: string[]) =>
    IModule,
  element: {e: string | Element | Document | IAugmentedJQuery} =>
    IAugmentedJQuery;

// Do not declare as `module` to avoid webpack bug
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

// Do not declare as `module` to avoid webpack bug
export const bootstrap: typeof angular.bootstrap = (e, modules,
    config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

// Do not declare as `module` to avoid webpack bug
export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);
```

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Note: The provided text contains TypeScript code that is part of the AngularJS library. It describes various AngularJS functions and properties that are used to manage the bootstrapping process, element manipulation, and module injection. The code snippets include functions for initializing AngularJS, managing testability, and handling global objects like angular. These functions are typically used within the context of an AngularJS application to set up the environment and manage dependencies.
'bind$[capitalAttr]':\n    this/bindonAttr = 'bindon$[capitalAttr]':\n    })\n  },/**\n    */\n    * @license\n    * Copyright Google Inc. All Rights Reserved.\n    */\n    * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n    */\n    * @angular/core\n    * @import {Injector, Type} from\n    */\n    * @angular\n    */\n    * const DIRECTIVE_PREFIX_REGEXP = /(?<:data)(\[\])\//\n    */\n    * const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[^-\s]+\.|(\.|\d)\(\)/g;\n    */\n    * @export function onEnhanceError(e: any) {\n    */\n    *   // TODO: (misko) We seem to not have a stack trace here!\n    */\n    *   if (console.error) {\n    */\n    *     console.error(e, e.stack);\n    */\n    *   } else {\n    */\n    *     // tslint:disable-next-line:no-console\n    */\n    *     console.log(e, e.stack);\n    */\n    *   }\n    */\n    *   throw e;\n    */\n    * }\n    */\n    * export function controllerKey(name: string): string {\n    */\n    *   return `$` + name + `Controller`\n    */\n    * }\n    */\n    * export function directiveNormalize(name: string): string {\n    */\n    *   return name.replace(DIRECTIVE_PREFIX_REGEXP, '')\n    */\n    *     .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_\n    */\n    *     letter) => letter.toUpperCase());\n    */\n    * }\n    */\n    * export function getTypeName(type: Type<any>): string {\n    */\n    *   // Return the name of the type or the first line of its stringified version.\n    */\n    *   return (type as any).overriddenName || type.name ||\n    */\n    *   type.toString().split('\n')[0];\n    */\n    * }\n    */\n    * export function getDowngradedModuleCount($injector: IInjectorService): number {\n    */\n    *   return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?\n    */\n    *     $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n    */\n    *     0;\n    */\n    * }\n    */\n    * export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {\n    */\n    *   return $injector.has(UPGRADE_APP_TYPE_KEY) ?\n    */\n    *     $injector.get(UPGRADE_APP_TYPE_KEY) :\n    */\n    *     UpgradeAppType.None;\n    */\n    * }\n    */\n    * export interface LazyModuleRef {\n    */\n    *   injector?: Injector;\n    */\n    *   promise?: Promise<Injector>;\n    */\n    * }\n    */\n    * export const enum UpgradeAppType {\n    */\n    *   // App NOT using `@angular/upgrade`. (This should never happen in an\n    */\n    *   'ngUpgrade' app.)\n    */\n    *   None,\n    */\n    *   // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic\n    */\n    *   'ngUpgrade').\n    */\n    *   Dynamic,\n    */\n    *   // App using `@angular/upgrade/static` with `UpgradeModule`.\n    */\n    *   Static,\n    */\n    *   // App using `@angular/upgrade/static` with `downgradeModule()`.\n    */\n    *   Lite,\n    */\n    *   // return Whether the passed-in component implements the subset of the\n    */\n    *   * `ControlValueAccessor` interface needed for AngularJS\n    */\n    *   * ng-model.\n    */\n    *   * compatibility.\n    */\n    *   * @return\n    */\n    *   * Glue the AngularJS `NgModelController` (if it exists) to the component.\n    */\n    *   */\n    *   * @export function hookupNgModel(ngModel: INgModelController,
component: any) {\n  if (ngModel &\& supportsNgModel(component)) {\n    ngModel.$render = () => {\n      component.writeValue(ngModel.$viewValue); }\n    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n  }\n  if (typeof component.registerOnTouched === 'function') {\n    component.registerOnTouched = (value) => {\n      component.writeValue(value);\n    }\n  }\n}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.\n */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';
import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;
  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector!: ChangeDetectorRef;
  private ngModel: INgModelController;
  private parentInjector: Injector;
  private $injector: IInjectorService;
  private $compile: ICompileService;
  private $parse: IParseService;
  private componentFactory: ComponentFactory<any>;
  private wrapCallback: <T>(cb: () => T) => () => T|

  constructor(
    private element: IAugmentedJQuery,
    private attrs: IAttributes,
    private scope: IScope,
    private ngModel: INgModelController,
    private parentInjector: Injector,
    private $injector: IInjectorService,
    private $compile: ICompileService,
    private $parse: IParseService,
    private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T|
  ) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();
    linkFns.forEach(linkFn => {
      linkFn(this.scope, (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
        this.element.append(clone);
      });
    });
    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({providers: providers, parent: this.parentInjector});
    this.componentRef = this.componentFactory.create(childInjector,
      projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
  }

  setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName,
        inputs[i].templateName);
      let expr: string|null = null;
      if (attrs.hasOwnProperty(input.attr)) {
        expr = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
        attrs.$observe(input.attr, expr);
        // Use `$watch()` (in addition to `$observe()`) in
order to initialize the input in time
for `ngOnChanges()`). This is necessary if we are already in a `$digest`,
which means that
`ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
callback.
let unwatch: Function|null = this.componentScope.$watch(() => {
    unwatch !();
    unwatch = null;
    observeFn(attrs[input.attr]);
})
else if (attrs.hasOwnProperty(input.bindAttr))
{
    expr = attrs[input.bindAttr];
    if (attrs.hasOwnProperty(input.bindonAttr))
    {
        expr = attrs[input.bindonAttr];
    }
    if (attrs.hasOwnProperty(input.bracketAttr))
    {
        expr =
            attrs[input.bracketAttr];
    }
    if (attrs.hasOwnProperty(input.bracketParenAttr))
    {
        expr =
            attrs[input.bracketParenAttr];
    }
}

if (expr != null) {
    const watchFn =
        (prop => (currValue:
            any, prevValue: any) =>
                this.updateInput(prop, prevValue, currValue))(input.prop);
    this.componentScope.$watch(expr, watchFn);
}

// Invoke `ngOnChanges()` and Change Detection
when necessary
const detectChanges = () => this.changeDetector.detectChanges();
const prototype =
    this.componentFactory.componentType.prototype;
this.implementsOnChanges = !!(prototype &&
    (<OnChanges>prototype).ngOnChanges);

this.componentScope.$watch(() => this.inputChangeCount,
    this.wrapCallback(() => {
        // Invoke `ngOnChanges()`
        if (this.implementsOnChanges) {
            const
                inputChanges = this.inputChanges;
            this.inputChanges = {};
            (<OnChanges>this.component).ngOnChanges(inputChanges !);
        }

        this.viewChangeDetector.markForCheck();

        // If opted out of propagating digests, invoke change detection
        if (!propagateDigest) {
            detectChanges();
        }
    }));

// If not opted out of
propagating digests, invoke change detection on every digest
if (propagateDigest) {
    this.componentScope.$watch(this.wrapCallback(detectChanges));
}

// If necessary, attach the view so that
it will be dirty-checked.
// (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
if (manuallyAttachView || !propagateDigest) {
    let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch !();
        unwatch = null;
        const appRef =
            this.parentInjector.get<ApplicationRef>(ApplicationRef);
            appRef.attachView(this.componentRef.hostView);
    });
}

// order below is important -
// first update bindings then evaluate expressions
if (attrs.hasOwnProperty(bindonAttr)) {
    this.subscribeToOutput(output, attrs[bindonAttr], true);
}
if (attrs.hasOwnProperty(bracketParenAttr)) {
    this.subscribeToOutput(output, attrs[bracketParenAttr], true);
}
if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr]);
}
if (attrs.hasOwnProperty(output.parenAttr)) {
    this.subscribeToOutput(output, attrs[output.parenAttr]);
}
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
        throw new
            Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as
        EventEmitter<any>;
    if (emitter) {
        emitter.subscribe({
            next: isAssignment ? (v: any) => setter
                (this.scope, v) :
            (v: any) => getter(this.scope, {'$event': v})
        });
    } else {
        throw new
            Error(`Missing emitter '${output.prop}' on component
                '${getTypeName(this.componentFactory.componentType)}'`);
    }
}

registerCleanup() {
    const
        testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
        destroyComponentRef =
            this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;

    this.element.on !('$destroy', () => this.componentScope.$destroy());
    this.componentScope.$on('$destroy', () => {
        if (!destroyed) {
            destroyed = true;
            testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
            destroyComponentRef();
        };
    });

    getInjector();

    private updateInput(prop: string, prevValue: any, currValue: any) {
        if (this.implementsOnChanges) {
            this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue == currValue);
        }
    }
let ngContentSelectors = this.componentFactory.ngContentSelectors;

return

function findBySelector(ngContentSelectors, element) {
  let ngContentIndex = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (matchesSelector(element, selector)) {
      ngContentIndex = i;
      break;
    }
  }

  return ngContentIndex;
}

let ngContentIndices: number[] = [];

function matchesSelector(element: any, selector: string): boolean {
  if (!_matches) {
    _matches = element.matches || element.matchesSelector ||
        msMatchesSelector || oMatchesSelector ||
        webkitMatchesSelector;
  }
  return element.nodeType === Node.ELEMENT_NODE ? _matches.call(element, selector) : false;
}

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches ||
        elProto.matchesSelector ||
        elProto.mozMatchesSelector ||
        elProto.msMatchesSelector ||
        elProto.oMatchesSelector ||
        elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) callback(this.value);
    else this.callbacks.push(callback);
  }

  constructor(value: T) {
    this.callbacks.push(callback);
  }
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';
import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from 'angular/core';
import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from '@angular\':!\nimport {SCOMPILE, SINJECTOR, SPARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from '/constants\':!\nimport {DowngradeComponentAdapter} from '/downgrade_component_adapter\':!\nimport {SyncPromise, Thenable} from '/promise_util\':!\nimport {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from '/util\':!\nimport * as description\n * A helper function that allows an Angular component to be used from AngularJS.

 * This helper function returns a factory function to be used for registering
 * an AngularJS wrapper directive for "/downgrading" an Angular component.

 * @usageNotes
 * ### Examples
 * 
 * Let's assume that you
have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates. We must create an AngularJS directive that wraps the `downgradedComponent()` function returns a factory function that can use to define the AngularJS directive that wraps the `downgradedComponent`.

```typescript
{@example upgrade/static/ts/full/module.ts region="ng2-heroes"}

We must create an AngularJS directive that will make this Angular component available inside AngularJS templates. The `downgradeComponent()` function returns a factory function that can use to define the AngularJS directive that wraps the `downgradedComponent`.

```typescript
{@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}

For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](https://docs.angularjs.org/guide/upgrade#using-angular-components-from-angularjs-code).

```typescript

@param info contains information about the Component that is being downgraded:

- `component: Type<any>`: The type of the Component that will be downgraded
- `downgradedModule?: string`: The name of the downgraded module (if any) that the component
- `propagateDigest?: boolean`: Whether to perform `ChangeDetectorRef#detectChanges` on the component on every

```typescript

[$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).

```typescript

This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.

```typescript

- `propagateDigest?: boolean`: Whether to perform `ChangeDetectorRef#detectChanges` on the component on every

```typescript

@publicApi
export
function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be
    //   dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
    //   Angular zone.
    //   NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    //   inside the Angular zone (except if explicitly escaped, in which case we shouldn't
    //   force it back in).
    // const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    // const wrapCallback: <T>(cb: () => T) => typeof cb =
    //      !isNgUpgradeLite ? cb => cb : cb => () => NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;

    // When downgrading multiple modules, special handling is needed wrt injectors.
    const hasMultipleDowngradedModules =
      isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

    return {
      restrict: 'E',
      terminal: true,
      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
      link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]): {
        // We might have to compile the contents asynchronously, because this might have been
        // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
        // been compiled.
        const ngModel: INgModelController = required[1];
        const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
        let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
        let ranAsync = false;
        if (!parentInjector || hasMultipleDowngradedModules) {
          const downgradedModule = info.downgradedModule
          const lazyModuleRefKey = `$[LAZY_MODULE_REF]$`;
          const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;
          validateInjectionKey(Sinjection, downgradedModule, lazyModuleRefKey, attemptedAction);}

        const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
        moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;}

        // Notes: // // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
        // on the same tree as the `NgModule` that declares this downgraded component.
```
`finalParentInjector` is used for all other injection purposes. (Note that Angular knows to only traverse the component-tree part of that injector, when looking for an injectable and then switch to the module injector.)

// There are basically three cases:
  - If there is no parent component (thus no `parentInjector`), we bootstrap the downgrade
    `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
  - If there is a parent component, but it may belong to a different `NgModule`, then we use the `parentInjector` as both
    `finalModuleInjector` and `finalParentInjector`.
  - If there is a parent component (and thus a `parentInjector`) and we are sure that it belongs to the same `NgModule` as this downgrade component (e.g. because there is only one downgraded module, we use `parentInjector` as both `finalModuleInjector` and `finalParentInjector`).

// declaring `NgModule`'s injector as `finalModuleInjector`.
// Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again).
// Note 2: It is possible that (while there are multiple downgraded modules) this\n  // downgraded component and its parent component both belong to the same `NgModule`. In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we aren't treating this case as if they belong to different `NgModule`'s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and it is only `finalParentInjector` that is going to be used in non-`top-level` Angular component. Use the module:\n
const finalParentInjector = parentInjector || moduleInjector !;

if (this is a "top-level" Angular component or the parent component may belong to a different `NgModule`, use the module:\n
const finalModuleInjector = moduleInjector || parentInjector !;

\n\n\nconst doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  const projectableNodes = facade.compileContents();

  facade.createComponent(projectableNodes);

  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

  facade.setupOutputs();

  injectorPromise.resolve(facade.getInjector());

  if (ranAsync) {
    scope.$evalAsync(() => {});
  }
};
A helper function to allow an Angular service to be accessible from AngularJS.

```typescript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [INJECTOR];

  return factory;
}
```

The function `downgradeInjectable` allows an Angular service to be accessible from AngularJS. It takes a `token` parameter which identifies the service to be downgraded, and an optional `downgradedModule` parameter which identifies the module that provides the service. The function returns a factory that can be used to register the service on an AngularJS `NgModule`.

### Example Usage

First ensure that the service to be downgraded is provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have:

```typescript
@NgModule({
  providers: [HeroesService]
})
```

Now we can register the `downgradeInjectable` factory function for the service on an AngularJS `NgModule`:

```typescript
import {HeroesService} from '@angular/core';
import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned
 * by a call to `downgradeModule()`. It is the module, whose injector will be used for instantiating the
 * injectable.<br />
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular modules.)
 *
 * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be used
 * to register the service on an AngularJS `NgModule`.
 *
 * @publicApi
 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [INJECTOR];

  return factory;
}
```
IInjectorService = tempInjectorRef;

export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {INJECTOR, $INJECTOR, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a downgraded component needs to be instantiated.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that
 * support AOT compilation.
 *
 * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having
 * to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
 *
 * The Angular module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from that point onwards.
 *
 * `downgradeModule()` requires either an NgModuleFactory or a function:
 * - NgModuleFactory: If you pass an NgModuleFactory, it will be used to instantiate a module
 *   using `platformBrowser`'s `bootstrapModuleFactory()`.
 * - Function: If you pass a function, it is expected to return a promise resolving to an NgModuleRef.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that
 * support AOT compilation.
 *
 * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having
 * to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these
 * routes. The Angular module will be bootstrapped once (when requested for the first time) and the
 * same reference will be used from that point onwards.
 *
 * `downgradeModule()` requires either an NgModuleFactory or a function:
 *
 * NgModuleFactory: If you pass an NgModuleFactory, it will be used to instantiate a module
 * using `platformBrowser`'s `bootstrapModuleFactory()`.
 * Function: If you pass a function, it is expected to return a promise resolving to an NgModuleRef.
 *
 * The function is called with an array of extra `@link StaticProvider Providers` that are expected to
 * be available from the returned NgModuleRef's Injectors. The function returns the name of the
 * created AngularJS wrapper module. You can use it to declare a dependency in your main AngularJS
 * module.
 *
 * @example upgrade/static/ts/lite/module.ts region="basic-how-to"
 */

ngAdapterInjector implements Injector {

  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // 'NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR'. In such a case we should not walk up to the module
  // injector. AngularJS only supports a single tree and should always check the module injector.get(token: any, notFoundValue?: any): any {
  if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
    return notFoundValue;
  }

  return this.modInjector.get(token, notFoundValue);
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, ɵNOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';

export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR. In such a case we should not walk up to the module
  // injector. AngularJS only supports a single tree and should always check the module injector.get(token: any, notFoundValue?: any): any {
  if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
    return notFoundValue;
  }

  return this.modInjector.get(token, notFoundValue);
}
important"\n
* You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application.<br />
* Use one of the other

*### Differences with `UpgradeModule`

Besides their different API, there are two important internal differences between `*downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the `[ @link NgZone Angular zone ]`. 2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `\n
* `${$digest()}$digest()` when changes are detected in the Angular part of the application. What this means is that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary.

* `downgradeModule()`, on the other side, does not try to tie the two change detection systems as tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed. For a more detailed discussion of the differences and their implications, see `*Upgrade For Performance`([guide/upgrade-performance]).

* You can manually trigger a change detection run in AngularJS using `\n
* `[scope.$apply(...)]$apply()` or `\n
* `${$rootScope.$digest()}$digest()``. You can manually trigger a change detection run in Angular using `[ @link NgZone#run run ...] ngZone.run(...)`. It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

* - Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

* - If you want some injectables to be shared among all downgraded modules, you can provide them as.

* `StaticProvider`'s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`). When using (`@link PlatformRef#bootstrapmodule bootstrapModule()`)

* { link PlatformRef#bootstrapmodulefactory bootstrapModuleFactory()} to bootstrap the

* downgraded modules, each one is considered a `\root ` module. As a consequence, a new instance

* will be created for every injectable provided in `\root ` (via

* [ @link Injectable#providedIn providedIn ]). If this is not your intention, you can have a shared module (that will act as the `\root ` module) and create all downgraded modules using that module's injector:

* `moduleFactoryOrBootstrapFn: NgModuleFactory<T>` or

* `PlatformRef#bootstrapmodulefactory bootstrapModuleFactory()` to bootstrap the

* downgraded modules.

* `Upgrade_APP_TYPE_KEY`, UpgradeAppType.Lite) `factory(INJECTOR_KEY, [lazyInjectorKey, identity])` return injector;

* try to get the Angular injector before bootstrapping the corresponding `Angular module.:

* throw new Error("Trying to get the Angular injector before bootstrapping the corresponding `Angular module.

* promise: bootstrapFn(angular1Providers), then(ref => {

* injector = result injector = new
NgAdapterInjector(ref.injector);

injector.get($INJECTOR);

return injector;

($injector: IInjectorService, $provide: IProvideService) => {

$provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);

return lazyModuleName;

function identity<T = any>(x: T): T {
  return x;
}

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 */

import {ElementRef,

Injector, SimpleChanges} from '@angular/core';

import {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILINKFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';

import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';

import {controllerKey, directiveNormalize, isFunction} from './util';


const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

export interface IBindingDestination {

  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {

  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;

  $postLink?: () => void;
}

class UpgradeHelper {

  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,
      directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error(`Only support single directive definition for: ${name}`);
    }

    const directive = directives[0];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.\n if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string|Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template = $templateCache.get(url);

      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error(`loading directive templates asynchronously is not supported`);
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else {
            reject('GET component template from `'+url+'` returned '+status);
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    \n    const locals = {
      $scope: $scope, 'Element': $scopeELYment,
      \n      const controller = this.$controller(controllerType, locals, null,
      this.$controllerAs);\n      \n      this.$controller.data !(controllerKey(this.directive.name !), controller);\n      \n      return controller;
    }

    const template = this.compileTemplate(template ?: string);\n
    ILINKFn \n
    if (template !== undefined) {
      template

    UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;\n    }

    return this.compileHtml(template);

    $scope.$onDestroy($scope: IScope, controllerInstance?: any) {

    }
Open Source Used In MSX Platform Services 4.0.0

```javascript
(function(controllerInstance, $scope) {
  $scope.$destroy();
}

if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
  controllerInstance.$onDestroy();
}

// Clean the jQuery/jqLite data on the component+child elements.
// Equivalent to how jQuery/jqLite invoke `cleanData` on an Element
// (this.element)

https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223

https://github.com/angular/angular.js/blob/26d5f8f30f902a3d2f4b2aab70d86d4d688c822/src/jqLite.js#L306-L312

// `cleanData` will invoke the AngularJS `$destroy` DOM event

https://github.com/angular/angular.js/blob/26d5f8f30f902a3d2f4b2aab70d86d4d688c822/src/Angular.js#L1911-L1924

angularElement.cleanData(this.element);

angularElement.cleanData(this.element.querySelectorAll('*'));

...

Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
  const nodes = slots[slotName];
  slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
    return cloneAttach(nodes, scope);
  };
});

// Attach `$$slots` to default slot transclude fn.

// AngularJS v1.6+ ignores empty or whitespace-only transcluded text
// nodes. But Angular
// removes all text content after the first interpolation and updates it later, after
// evaluating the expressions. This would result in AngularJS failing to recognize text
// nodes that start with an interpolation as transcluded content and use the fallback
// content instead. In AngularJS v1.6+ ignores empty or whitespace-only transcluded text
// nodes. But Angular
// removes all text content after the first interpolation and updates it later, after
// evaluating the expressions. This would result in AngularJS failing to recognize text
// nodes that start with an interpolation as transcluded content and use the fallback
// content instead. In AngularJS v1.6+ ignores empty or whitespace-only transcluded text
```

Open Source Used In MSX Platform Services 4.0.0 368
childNodes.push(childNode);

private getDirectiveRequire(): DirectiveRequireProperty {
  const require = this.directive.require || (this.directive.controller &
  && this.directive.name) !;
  if (isMap(require)) {
    Object.keys(require).forEach(key => {
      const value = require[key] !;
      const match = value.match(REQUIRE_PREFIX_RE) !;
      const name = value.substring(match[0].length) !;
      if (name) {
        require[key] = match[0] + key; // ascent
      }
    });
  }

  return require;
}

private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any) {
  const require = this.directive.require || (this.directive.controller &&
  this.directive.name) !;
  if (Array.isArray(require)) {
    return require.map(req => this.resolveRequire(req));
  } else if (typeof require === 'string') {
    const value = require !;
    const match = value.match(REQUIRE_PREFIX_RE) !;
    const name = value.substring(match[0].length) !;
    const isOptional = !!match[2];
  } else {
    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':
                    $\{require\}\`); // ascent
  }
}

function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for `typeof T !== 'object`.
function isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T;
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

/**
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 * https://angular.io/license
 */

import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../../src/common/src/angular1';
import {$SCOPE} from '../../src/common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../src/common/src/upgrade_helper';
import {isFunction} from '../../src/common/src/util';

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';
const INITIAL_VALUE = {__UNINITIALIZED__: true};

class Bindings {
  twoWayBoundProperties: string[] = [];
  expressionBoundProperties: string[] = [];
  propertyToOutputMap: {[propName: string]: string} = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
 * Angular templates.
 *
 * *Part of the 
 * upgrade/static
 * library for hybrid upgrade apps that
 * support AOT compilation.*
 *
 * This helper class should be used as a base class for creating Angular directives
 * that wrap AngularJS components that need to be \`upgraded\`
 * using an UpgradeComponent.
 *
 * @usageNotes
 * ### Examples
 *
 * Let\'s assume that you have an AngularJS component called \`ng1Hero\` that needs
 * to be made available in
 * Angular templates.\n * We must create a \`Directive\` that will make this AngularJS component
 * available inside Angular templates.
 * Note that we must do the following:\n * specify the directive\'s selector (\`ng1-hero\`)\n * specify all inputs and
 * outputs that the AngularJS component expects\n * derive from the \`UpgradeComponent\` base class but also provide an @link Directive \`@Directive\` decorator.
 * This isn\'t because the AOT compiler requires that this information is statically available at runtime.\n * In this example you can see that we must derive from the \`UpgradeComponent\` base class but also provide an @link Directive \`@Directive\` decorator.
 * This isn\'t because the AOT compiler requires that this information is statically available at runtime.\n * In this example you can see that we must derive from the \`UpgradeComponent\` base class but also provide an @link Directive \`@Directive\` decorator.
 * This isn\'t because the AOT compiler requires that this information is statically available at runtime.\n * In this example you can see that we must derive from the \`UpgradeComponent\` base class but also provide an @link Directive \`@Directive\` decorator.
$componentScope: IScope;
private directive: IDirective;
private bindings: Bindings;

TODO(issue/24571): remove '!'.
private controllerInstance!: IControllerInstance;

TODO(issue/24571): remove '!'.
private bindingDestination!: IBindingDestination;

TODO(issue/24571): remove '!'.
private unregisterDoCheckWatcher!: Function;

/**
 * Create a new `UpgradeComponent` instance. You should not normally need to do this.
 * Instead you should derive a new class from this one and call the super constructor
 * from the base class.
 * *
 * @example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper" *
 * *
 * The `name` parameter should be the name of the AngularJS directive.
 * The `elementRef` and `injector` parameters should be acquired from Angular by dependency injection into the base class constructor.
 */
constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {
  this.helper = new UpgradeHelper(injector, name, elementRef);

  this.$injector = this.helper.$injector;

  this.element = this.helper.element;
  this.$element = this.helper.$element;

  this.directive = this.helper.directive;
  this.bindings = this.initializeBindings(this.directive);

  const $parentScope = injector.get($SCOPE);
  // QUESTION 1: Should we create an isolated scope if the scope is only true?
  // QUESTION 2: Should we make the scope accessible through `ngComponentScope`?
  this.$componentScope = $parentScope.$new(!!this.directive.scope);

  this.initializeOutputs();
}

ngOnInit() {
  const attachChildNodes: ILinkFn|undefined =
    this.helper.prepareTransclusion();
  const linkFn = this.helper.compileTemplate();

  // Instantiate controller
  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;
  if (controllerType) {
    this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
  } else if (bindToController) {
    throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
  }

  // Set up outputs
  this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
  this.bindOutputs();

  const requiredControllers =
    this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

  if (this.pendingChanges) {
    this.forwardChanges(this.pendingChanges);
    this.pendingChanges = null;
  }

  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
  }

  if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
    const callDoCheck = () => this.controllerInstance.$doCheck();
    this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
    callDoCheck();
  }

  if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }

  if (this.pendingChanges) {
    this.forwardChanges(this.pendingChanges);
  }

  twoWayBoundProperties = this.bindings.twoWayBoundProperties;
  twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
  propertyToOutputMap = this.bindings.propertyToOutputMap;

  twoWayBoundLastValues.forEach((propName, idx) => {
    const newValue = this.bindingDestination[propName];
    const oldValue = twoWayBoundLastValues[idx];
    if (!looseIdentical(newValue, oldValue)) {
      const outputName = propertyToOutputMap[propName];
      const eventEmitter: EventEmitter<any> = (this as any)[outputName];
      eventEmitter.emit(newValue);
    }
  });
twoWayBoundLastValues[idx] = newValue;
      })
    });
  }

  ngOnDestroy() {
    if (isFunction(this.unregisterDoCheckWatcher)) {
      this.unregisterDoCheckWatcher();
    } else if (this.helper.onDestroy) {
      this.helper.onDestroy(this.$componentScope, this.controllerInstance);
    }
  }

  private initializeBindings(directive: IDirective) {
    this.bindings = new Bindings();
    if (typeof directive.bindToController === 'object') {
      const btcIsObject = typeof directive.bindToController === 'object';
      if (btcIsObject && Object.keys(directive.bindToController).length) {
        throw new Error('`Binding definitions on scope and controller at the same time is not supported.`');
      } else if (this.helper.onDestroy) {
        this.helper.onDestroy(this.$componentScope, this.controllerInstance);
      }
    } else if (typeof directive === 'object') {
      forEach(propName => {
        const definition = directive[propName];
        const bindingType = definition.charAt(0);

        switch (bindingType) {
          case '@':
            // We don't need to do anything special. They will be
            // upgraded component facade and the change propagation will be handled by
            // `ngOnChanges()`. We don't need to do anything special.
            break;
          case '=':
            bindings.twoWayBoundProperties.push(propName);
            bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
            bindings.propertyToOutputMap[propName] = propName + 'Change';
            break;
          case '&':
            bindings.expressionBoundProperties.push(propName);
            bindings.propertyToOutputMap[propName] = propName;
            break;
          default:
            let json = JSON.stringify(directive);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
        }
      });
    }

    return bindings;
  }

  private initializeOutputs() {
    bindings.twoWayBoundProperties.concat(bindings.expressionBoundProperties)
      .forEach(propName => {
        const outputName = bindings.propertyToOutputMap[propName];
        (this as any)[outputName] = new EventEmitter();
      });
  }

  private bindOutputs() {
    bindings.expressionBoundProperties.forEach(propName => {
      const outputName = bindings.propertyToOutputMap[propName];
      const emitter = (this as any)[outputName];
      this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
  }

  private forwardChanges(changes: SimpleChanges) {
    Object.keys(changes).forEach(propName => this.bindingDestination[propName] = changes[propName].currentValue);
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../..//src/common/src/angular1';
import {NgAdapterInjector} from '../..//src/common/src/util';
import {UpgradeModule} from '../..//src/common/src/upgrade';
below.

4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See `downgradeInjectable`.

3. Bootstrapping of a hybrid Angular application which contains both of the frameworks coexisting in a single application.

import {UpgradeModule} from '@angular/upgrade/static';

See also the [UpgradeModule#examples examples] below.

When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootstraps the Angular component at its location in the DOM. See `UpgradeComponent`.

An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.

Whenever an "upgraded"/"downgraded" component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that the component bindings will always follow the semantics of the instantiation framework.

2. The DOM attributes are parsed by the framework that owns the current template. AngularJS templates must use kebab-case, while AngularJS templates need to use camelCase.

3. However the template binding syntax will always use the Angular style, e.g. square brackets ("[...]") for property binding. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

Importing this `NgModule` will add providers for the core AngularJS services to the root injector. It also contains properties to access the `UpgradeModule#injector root injector`, the bootstrap `NgZone` and the `AngularJS Sinjector`.

Import the `UpgradeModule` into your top level `NgModule`.

Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade application.

Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.

**Open Source Used In MSX Platform Services 4.0.0 372**
The Angular Injector

```typescript
/**
 * The root `Injector` for the upgrade application.
 */
public injector: Injector;

constructor(
    /**
     * The root `Injector` for the upgrade application.
     */
    injector: Injector,
    /**
     * The bootstrap zone for the upgrade application
     */
    public ngZone: NgZone) {
this.injector = new NgAdapterInjector(injector);
}

/**
 * Bootstrap an AngularJS application from this NgModule
 */
bootstrap(
    element: Element,
    [modules]?: string[] = [],
    [config]?: any /*angular.BootstrapConfig*/) {

const injector = this.injector;

// Cannot use arrow function below because we need the context
originalWhenStable =.injector.get(Testability);

// Make sure resumeBootstrap() only exists if the current
```
bootstrap is deferred
const windowAngular = (window as any)['angular'];
windowAngular.resumeBootstrap = undefined;
// Bootstrap the AngularJS application inside our zone
this.ngZone.run(() => {
  const upgradeModule = (window as any)['upgradeModule'];

  const originalResumeBootstrap = windowAngular.resumeBootstrap;

  if (windowAngular.resumeBootstrap) {
    windowAngular.resumeBootstrap = function() {
      const args = arguments;
      originalResumeBootstrap.apply(this, args);
    };
  }

  // Patch resumeBootstrap() to run inside the ngZone
  // Note that this mutation is not needed when run using node
  if (windowAngular.resumeBootstrap) {
    const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
    const ngZone = this.ngZone;
    windowAngular.resumeBootstrap = function() {
      let args = arguments;
      return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
    };
  }

  // Bootstrap the AngularJS application inside our zone
  this.ngZone.run(() => {
    bootstrap(element, [upgradeModule.name], config); });

  // Patch resumeBootstrap() to run inside the ngZone
  if (windowAngular.resumeBootstrap) {
    const originalResumeBootstrap = windowAngular.resumeBootstrap;
    const ngZone = this.ngZone;
    windowAngular.resumeBootstrap = function() {
      let args = arguments;
      return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
    };
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

export {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from
'@angular/core/src/common/src/angular1';
export {downgradeComponent} from
'@angular/core/src/common/src/downgrade_component';
export {downgradeInjectable} from
'@angular/core/src/common/src/downgrade_injectable';
export {VERSION} from '@angular/core/src/common/src/version';
export {UpgradeComponent} from
'@angular/core/src/upgrade_component';
export {UpgradeModule} from './src/upgrade_module';

// This file only re-exports
// items to appear in the public api. Keep it that way.
// This is not used to build this module. It is only used during
// editing to validate that the typescript language service and
during build for verification. `ngc` replaces this file with
// production index.ts when it rewrites private symbols.

export * from './public_api';

export * from './index';

export {angular1Providers as
  angular_packages_upgrade_static_static_e,compileFactory as
  angular_packages_upgrade_static_static_c,injectorFactory as
  angular_packages_upgrade_static_static_a,parseFactory as
  angular_packages_upgrade_static_static_d,rootScopeFactory as
  angular_packages_upgrade_static_static_b} from
'./src/angular1_providers';

n
AE,UAU,EAAE,IAAI,CAAC,QAAQ,EAAC,CAAC,QAC7D,IAAM,UAUU,GAAG,IAAI,CAAC,WAAM,CAAC,
CAAc,EAEE,MAAM,EAAE,IAAI,CAAC,SAAS,CAAC,AAAY,CAAC,CAAC,QAAE,F,IAAI,CAAC,
QAAQ,CAAC,IAAM,CAAC,aAAa,CAAC,IAAI,CAAC,SAAS,CAAC,IAAM,CAAC,EAEE,UAU,CAAC,CAAC,
QAEv,E,UAU,UAU,CAAC,KACbnB;IAEDL,uCAAE,GAaI,UAAGB,QAAiB,QACB;IAIAI,QAQQ,KAAK,SAAS,
,EAAE,YAC1B,QAAQ;gBACJ,aAAa,CAAC,WAAW,CAAC,IAAI,CAAC,SAAS,EAEE,IAAI,CAAC,SAAS,EAEE,
EKAEE,IAAI,CAAC,QAAQ,CAAC;CAAC;SAAC;SACF;QAED,OAQQ,IAAI,CAAC,WAAW,CAAC,QAQQ,
CAAC,CAAC,KACnC;IAED;iCAAS,GAAT,UAUU,MAAc,EAEE,kBAaWB;QAChD,IAAI,kBAaKB,IAAI,UAU,
CAAC,kBAkB,CAAC,UAUU,CAAC,EAEE,YAChEB,kBAkB,CAAC,UAUU,EAEE,CAAC,SAAC;QCAD;
MAAM,CAAC,QAAQ,EAAC,CAAC;SAAC;SAC;CAAC;QCAD,F;QAC1B,OAQQ,AOOA,CAAC,SAAS,CAAC,CAAC,IAAI,CAAC,OOAO,CAAC,
CAAC,CAAC,QACxF,C;IAAM,qBAGB,GAAG,CAAC,AAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;QAED,OAQQ,OAQQ,
QAC7D,IAAM,qBAGB,GAAG,IAAI,CAAC;QCAD,F;QAC1B,OAQQ,AOOA,CAAC,SAAS,CAAC,CAAC,IAAI,CAAC,OOAO,CAAC,
CAAC,CAAC,QACxF,C;IAAM,qBAGB,GAAG,IAAI,CAAC;QCAD,F;QAC1B,OAQQ,AOOA,CAAC,SAAS,CAAC,CAAC,IAAI,CAAC,OOAO,CAAC,
CAAC,CAAC,QACxF,C;IAAM,qBAGB,GAAG,IAAI,CAAC;QCAD,F;QAC1B,OAQQ,AOOA,CAAC,SAAS,CAAC,CAAC,IAAI,CAAC,OOAO,CAAC,
CAAC,CAAC,QACxF,C;IAAM,qBAGB,GAAG,IAAI,CAAC;QCAD,F;QAC1B,OAQQ,AOOA,CAAC,SAAS,CAAC,CAAC,IAAI,CAAC,OOAO,CAAC,
CAAC,CAAC,QACxF,C;IAAM,qBAGB,GAAG,IAAI,CAAC;QCAD,F;QAC1B,OAQQ,AOOA,CAAC,SAAS,CAAC,CAAC,IAAI,CAAC,OOAO,CAAC,
CAAC,CAAC,QACxF,C;IAAM,qBAGB,GAAG,IAAI,CAAC;QCAD,F;QAC1B,OAQQ,AOOA,CAAC,SAAS,CAAC,CAAC,IAAI,CAAC,OOAO,CAAC,
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static.js.map

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

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```javascript
var element.cleanData = function (nodes) { return angular.element.cleanData(nodes); };
var injector = function (modules, strictDI) { return angular.injector(modules, strictDI); };
var resumeBootstrap = function () { return angular.resumeBootstrap(); };
var getTestability = function (e) { return angular.getTestability(e); };

/**
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 * found in the LICENSE file at https://angular.io/license
 */

$COMPILE = '$compile';
$CONTROLLER = '$controller';
$DELEGATE = '$delegate';
$EXCEPTION_HANDLER = '$exceptionHandler';
$HTTP_BACKEND = '$httpBackend';
$INJECTOR = '$injector';
$INTERVAL = '$interval';
$PARSE = '$parse';
$PROVIDE = '$provide';
$ROOT_SCOPE = '$rootScope';
$SCOPE = '$scope';
$TEMPLATE_CACHE = '$templateCache';
$TEMPLATE_REQUEST = '$templateRequest';
$$TESTABILITY = '$$testability';
COMPILER_KEY = '$$angularCompiler';
DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
INJECTOR_KEY = '$$angularInjector';
LAZY_MODULE_REF = '$$angularLazyModuleRef';
NG_ZONE_KEY = '$$angularNgZone';
REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
REQUIRE_NG_MODEL = '?ngModel';
UPGRADE_MODULE_NAME = '$$UpgradeModule';

/**
 * A `PropertyBinding` represents a mapping
 * between a property name and an attribute name. It is parsed from a string of the form
 * `\'prop: attr\'`; or simply `\'propAndAttr\'` where the property
 * and attribute have the same identifier.
 */
PropertyBinding = /** @class */ (function () {
    function PropertyBinding(prop, attr) {
        this.prop = prop;
        this.attr = attr;
        this.parseBinding();
    }
    PropertyBinding.prototype.parseBinding = function () {
        this.bracketAttr = '\[' + this.attr + '\]';
        this.parenAttr = '\(' + this.attr + '\)';
        this.bracketParenAttr = '\[(' + this.attr + '\)]';
        var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
        this.onAttr = 'on' + capitalAttr;
        this.bindAttr = 'bind' + capitalAttr;
        this.bindonAttr = 'bindon' + capitalAttr;
    };
    return PropertyBinding;
})();

DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)[\:\-_]/i;
DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-_]+(.)/g;

onError(e) {
    // TODO: (misko): We seem to not have a stack trace here!
    if (console.error) {
        console.error(e, e.stack);
    }
    else {
        // tslint:disable-next-line:no-console
        console.log(e, e.stack);
    }
    throw e;
}

class PropertyBinding {

    constructor(prop, attr) {
        this.prop = prop;
        this.attr = attr;
        this.parseBinding();
    }

    parseBinding() {
        this.bracketAttr = `\[${this.attr}\]`; // MIT-style license that can be found
        this.parenAttr = `\(${this.attr}\)`;
        this.bracketParenAttr = `\[(${this.attr})\]`;
        var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
        this.onAttr = `on${capitalAttr}`;
        this.bindAttr = `bind${capitalAttr}`;
        this.bindonAttr = `bindon${capitalAttr}`;
    }

    /**
     * @license
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     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    /**
     * A `PropertyBinding` represents a mapping
     * between a property name and an attribute name. It is parsed from a string of the form
     * `\'prop: attr\'`; or simply `\'propAndAttr\'` where the property
     * and attribute have the same identifier.
     */
    PropertyBinding = /** @class */ (function () {
        function PropertyBinding(prop, attr) {
            this.prop = prop;
            this.attr = attr;
            this.parseBinding();
        }
        PropertyBinding.prototype.parseBinding = function () {
            this.bracketAttr = `\[${this.prop} + this.attr + \]`; // MIT-style license that can be
            this.parenAttr = `\(${this.prop} + this.attr + \)`;
            this.bracketParenAttr = `\[(${this.prop} + this.attr + \])`;
            var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
            this.onAttr = `on${capitalAttr}`;
            this.bindAttr = `bind${capitalAttr}`;
            this.bindonAttr = `bindon${capitalAttr}`;
        };
        return PropertyBinding;
    }());

    /**
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     *
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     * MIT-style license that can be found in the LICENSE file at https://angular.io/license
     */
    /**
     * A `PropertyBinding` represents a mapping
     * between a property name and an attribute name. It is parsed from a string of the form
     * `\'prop: attr\'`; or simply `\'propAndAttr\'` where the property
     * and attribute have the same identifier.
     */
    PropertyBinding = /** @class */ (function () {
        function PropertyBinding(prop, attr) {
            this.prop = prop;
            this.attr = attr;
            this.parseBinding();
        }
        PropertyBinding.prototype.parseBinding = function () {
            this.bracketAttr = `\[${this.prop} + this.attr + \]`; // MIT-style license that can be
            this.parenAttr = `\(${this.prop} + this.attr + \)`;
            this.bracketParenAttr = `\[(${this.prop} + this.attr + \])`;
            var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
            this.onAttr = `on${capitalAttr}`;
            this.bindAttr = `bind${capitalAttr}`;
            this.bindonAttr = `bindon${capitalAttr}`;
        };
        return PropertyBinding;
    }());

    function PropertyBinding(prop, attr) {
      this.prop = prop;
      this.attr = attr;
      this.parseBinding();
    }

    function parseBinding() {
      this.bracketAttr = `\[${this.prop} + this.attr + \]`; // MIT-style license that can be
      this.parenAttr = `\(${this.prop} + this.attr + \)`;
      this.bracketParenAttr = `\[(${this.prop} + this.attr + \])`;
      var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
      this.onAttr = `on${capitalAttr}`;
      this.bindAttr = `bind${capitalAttr}`;
      this.bindonAttr = `bindon${capitalAttr}`;
    }

    function PropertyBinding(prop, attr) {
      this.prop = prop;
      this.attr = attr;
      this.parseBinding();
    }

    function parseBinding() {
      this.bracketAttr = `\[${this.prop} + this.attr + \]`; // MIT-style license that can be
      this.parenAttr = `\(${this.prop} + this.attr + \)`;
      this.bracketParenAttr = `\[(${this.prop} + this.attr + \])`;
      var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
      this.onAttr = `on${capitalAttr}`;
      this.bindAttr = `bind${capitalAttr}`;
      this.bindonAttr = `bindon${capitalAttr}`;
    }
```
you are downgrading `+\n
more than one Angular module (via `\ndowngradeModule()`):\n
`\n
} break;\n
break;\n
case 3 /* Lite */: \n
if (!downgradedModule && (downgradedModuleCount

> 2)) {\n
throw new Error("Error while \n+ attemptedAction + \n+ 'downgradedModule' not

specified.\n\n+\n
'\n
This application contains more than one downgraded Angular module, thus you

need to \n+\n
'always specify \`downgradedModule\' when downgrading components and

injectables.\n\n+\n
} \n
if (!Sinjector.has(injectionKey)) {\n
throw new Error("Error while \n+ attemptedAction + \n+ ' downgradedModule' not

valid \`angular\upgrade\' application.\n\n+\n
'Did you forget to downgrade an Angular module or include it in the AngularJS \n+\n
'application'?\n
} \n
break;\n
default;\n
throw new Error("Error while \n+ attemptedAction + \n+ ' downgradedModule' not

valid \`angular\upgrade\' application.\n\n+\n
'Did you forget to downgrade an Angular module or include it in the AngularJS \n+\n
'application'?\n
} \n
var Deferred = /** @class */ (function

() {

var this = this;\n
this.promise = new Promise(function (res, rej) {

this.resolve = res;\n
this.reject = rej;\n
});\n
})();\n
/**\n
* @return Whether the passed-in component implements the subset of the\n
* `ControlValueAccessor` interface needed for AngularJS `ng-model` \n
* compatibility.\n
* @function \n
supportsNgModel(component) \n
return typeof component.writeValue === 'function' &&

typeof component.registerOnChange === 'function';

*/

function hookupNgModel(ngModel, component) {

if (ngModel && supportsNgModel(component)) {

ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };

component.registerOnChange(ngModel.$setViewValue.bind(ngModel));

if (typeof 

component.registerOnTouched === 'function') {

component.registerOnTouched(ngModel.$setTouched.bind(ngModel));

}

*/\n
/**\n
* Test\n
two values for strict equality, accounting for the fact that `NaN !== NaN`.\n
*/

function strictEquals(val1, val2) {

return val1 === val2 || (val1 !== val1 && val2 !== val2);

}
DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
    var _this = this;
    if (propagateDigest === void 0) { propagateDigest = true; }
    var attr = this.attrs;
    var inputs = this.componentFactory.inputs || [];
    var _loop_1 = function (i) {
        var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
        var expr = null;
        if (attr.hasOwnProperty(input.attr)) {
            var observeFn = (function (prop) {
                var prevValue = INITIAL_VALUE;
                return function (currValue) {
                    // Initially, both `$observe()` and `$watch()` will call this function.
                    if (!strictEquals(prevValue, currValue)) {
                        prevValue = currValue;
                    }
                    _this.updateInput(prop, prevValue, currValue);
                    prevValue = currValue;
                };
            })(input.prop);
            attr.$observe(input.attr, observeFn);
            // Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time for `ngOnChanges()`.
            // This is necessary if we are already in a `$digest`, which means that
            // `$ngOnChanges()` (which is called by a watcher) will run before the `$observe()` callback.
            var unwatch_1 = _this.componentScope.$watch(function () {
                unwatch_1();
                unwatch_1 = null;
            });
            if (propagateDigest) {
                this.componentScope.$watch(this.wrapCallback(unwatch_1));
            }
        } else if (attr.hasOwnProperty(input.bindAttr)) {
            expr = attr[input.bindAttr];
        } else if (attr.hasOwnProperty(input.bracketAttr)) {
            expr = attr[input.bracketAttr];
        } else if (attr.hasOwnProperty(input.bindonAttr)) {
            expr = attr[input.bindonAttr];
        } else if (attr.hasOwnProperty(input.bracketParenAttr)) {
            expr = attr[input.bracketParenAttr];
        }
        if (expr != null) {
            var watchFn = (function (prop) { return function (currValue, prevValue) {
                return _this.updateInput(prop, prevValue, currValue);
            }; })(input.prop);
            this.componentScope.$watch(expr, watchFn);
        }
        _this.$observe(input.attr, function () {
            var this_1 = this;
            for (var i = 0; i < inputs.length; i++) {
                _loop_1(i);
            }
            // Invoke `ngOnChanges()` and Change Detection (when necessary)
            var detectChanges = function () { return _this.changeDetector.detectChanges(); };
            var prototype = this.componentFactory.componentType.prototype;
            this.implementsOnChanges = !!(prototype && prototype.ngOnChanges);
            this.componentScope.$watch(function () { return _this.implementsOnChangesCount; },
                this.wrapCallback(function () { if (!this.implementsOnChanges) {
                var inputChanges = _this.inputChanges;
                _this.inputChanges = {};
                _this.component.ngOnChanges(inputChanges);
            }));
            _this.viewChangeDetector.markForCheck();
            // If not opted out of propagating digests, invoke change detection when inputs change
            if (propagateDigest) {
                this.componentScope.$watch(this.wrapCallback(detectChanges));
            }
            // If necessary, attach the view so that it will be dirty-checked.
            // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
            if (manuallyAttachView || !propagateDigest) {
                var appRef = this.parentInjector.get(core.ApplicationRef);
                appRef.attachView(_this.componentRef.hostView);
            }
        });
    }
};

output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8) + ")";
    // order below is important - first update bindings then evaluate expressions
    if (attrs.hasOwnProperty(bindonAttr)) {
        this.subscribeToOutput(output, attrs[bindonAttr], true);
    }
    if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.subscribeToOutput(output, attrs[bracketParenAttr], true);
    }
    if (attrs.hasOwnProperty(output.onAttr)) {
        this.subscribeToOutput(output, attrs[output.onAttr]);
    }
    if (attrs.hasOwnProperty(output.parenAttr)) {
        this.subscribeToOutput(output, attrs[output.parenAttr]);
    }
}

DowngradeComponentAdapter.prototype.subscribeToOutput = function (output, expr, isAssignment) {
    var _this = this;
    if (isAssignment === void 0) { isAssignment = false; }
    var getter = this.$parse(expr);
    var setter = getter.assign;
    if (isAssignment && !setter) {
        throw new Error("Expression '" + expr + "' is not assignable!");
    }
    var emitter = this.component[output.prop];
    if (emitter) {
        emitter.subscribe({
            next: isAssignment
                ? function (v) { return setter(_this.scope, v); }
                : function (v) { return getter(_this.scope, { '$event': v }); }
        });
    }
    else {
        throw new Error("Missing emitter '" + output.prop + "' on component '" + getTypeName(this.componentFactory.componentType) + "'!");
    }
}

DowngradeComponentAdapter.prototype.registerCleanup = function () {
    var _this = this;
    var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);
    var destroyComponentRef = this.wrapCallback(function () { return _this.componentRef.destroy(); });
    var destroyed = false;

    this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });
    this.componentScope.$on('$destroy', function () {
        if (!destroyed) {
            destroyed = true;
            testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);
            destroyComponentRef();
        }
    });
}

DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; };

DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
    if (this.implementsOnChanges) {
        this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
    }
    this.inputChangeCount++;
    this.component[prop] = currValue;
}

DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {
    var ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */

function groupNodesBySelector(ngContentSelectors, nodes) {
    var projectableNodes = [];
    var wildcardNgContentIndex;
    for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
        projectableNodes[i] = [];
    }
    for (var j = 0, jj = nodes.length; j < jj; ++j) {
        var node = nodes[j];
        var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex != null) {
            projectableNodes[ngContentIndex].push(node);
        }
    }
    return projectableNodes;
}

/**
 * Find the index of a content selector that matches the given node.
 */

function findMatchingNgContentIndex(element, ngContentSelectors) {
    var ngContentIndices = [];
    var wildcardNgContentIndex = -1;
    for (var i = 0; i < ngContentSelectors.length; i++) {
        var selector = ngContentSelectors[i];
        if (selector === '*') {
            wildcardNgContentIndex = i;
        }
        else {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(i);
            }
        }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
        return wildcardNgContentIndex;
    }
    else {
        if (matchesSelector(element, '/*')) {
            return wildcardNgContentIndex;
        }
    }
    return ngContentIndices.push(wildcardNgContentIndex);
}

/**
 * Check if an object is a promise-like object.
 */

function isThenable(obj) {
    return...
Open Source Used In MSX Platform Services 4.0.0

```javascript
!!obj &isFunction(obj.then); \n )\n /**\n * Synchronous, promise-like object.\n */\n var SyncPromise = \n /** @class */ (function () {\n function SyncPromise() {\n this.resolved = false;\n this.callbacks = [];}\n SyncPromise.all = function (valuesOrPromises) {\n var aggrPromise = new SyncPromise();\n var resolvedCount = 0;\n var results = [];\n var resolve = function (idx, value) {\n results[idx] = value;\n if (++resolvedCount === valuesOrPromises.length)\n aggrPromise.resolve(results);\n }\n valuesOrPromises.forEach(function (p, idx) {\n if (isThenable(p)) {\n p.then(function (v) { return resolve(idx, v); });\n }\n else {\n resolve(idx, p);\n }\n }\n })\n SyncPromise.prototype.resolve = function (value) {\n // Do nothing, if already resolved.\n if (this.resolved)\n return;\n this.value = value;\n this.resolved = true;\n // Run the queued callbacks.\n this.callbacks.forEach(function (callback) { return callback(value); });\n\n this.callbacks.length = 0;\n SyncPromise.prototype.then = function (callback) {\n if (this.resolved)\n this.callbacks.push(callback);\n return SyncPromise();\n }\n /**\n * Copyright Google Inc. All Rights Reserved.\n */\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license.\n */
 * @license
 * A helper function that allows an Angular component to be used from AngularJS.\n */
 * @param {string} component - The name of the downgraded component.\n * @param {Type<any>} componentType - The type of the Component that will be downgraded.\n * @param {boolean} propagateDigest - boolean: Whether to perform \`detectChanges\` on the component on every \$digest([https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest].) change detection.\n * @returns a factory function that we can use to register an AngularJS wrapper directive for \`downgrading\` an Angular component.\n */

```

Examples

* Let's assume that you have an Angular component called \`ng2Heroes\` that needs to be made available in AngularJS templates.\n  * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive) that will make this Angular component available inside AngularJS templates.\n  * The \`downgradeComponent\` function returns a factory function that we can use to define the AngularJS directive that wraps the \`downgraded\` component.\n
```
```
```
isNewApplet();

isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

return {
  name: 'E',
  terminal: true,
  require: [REEQURE_INJECTOR, REQUIRE_NG_MODEL],
  link: function (scope, element, attrs, required) {
    // We might have to compile the contents asynchronously,
    because this might have been
    // triggered by 'UpgradeNg1ComponentAdapterBuilder', before the
    Angular templates have
    // been compiled.
    var ngModel = required[1];
    var parentInjector = required[0];
    var moduleInjector = undefined;
    var ranAsync = false;
    if (!parentInjector || hasMultipleDowngradedModules($injector)) {
      var downgradedModule = info.downgradedModule || '';
      var lazyModuleRefKey = L"\" + LAZY_MODULE_REF +
        downgradedModule;
      var attemptedAction = L"\" +
        getTypeName(info.component) + L"\";
      validateInjectionKey($injector, downgradedModule,
        lazyModuleRefKey, attemptedAction);
      var lazyModuleRef = $injector.get(lazyModuleRefKey);$
      moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;
    }
    //}
    //
    // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they
    // might be
    // the same instance, but that is irrelevant); `finalModuleInjector` is used to
    // retrieve `ComponentFactoryResolver`, thus it must be
    // on the same tree as the 'NgModule' that declares this downgraded component.
    // `finalParentInjector` is used for all other injection
    // purposes:
    // (Note that Angular knows to only traverse the component-tree part of that injector;)
    // when looking for an injectable and then switch to the module injector.)
    //
    // There are basically three cases:
    // - If there is no parent component (thus no `parentInjector`), we
    // bootstrap the downgraded
    //   'NgModule' and use its injector as both `finalModuleInjector` and
    //   `finalParentInjector`.
    // - If there is a parent component (and thus a 'parentInjector') and we
    // are sure that it
    //   belongs to the same 'NgModule' as this downgraded component (e.g. because there
    // is only
    //   one downgraded module, we use that 'parentInjector' as both `finalModuleInjector` and
    //   `finalParentInjector`).
    // - If there is a parent component, but it may belong to a different
    //   'NgModule', then we
    //   use the 'parentInjector' as `finalParentInjector` and this downgraded
    //   component
    //   declaring 'NgModule`'s injector as `finalModuleInjector`.
    //   Note 1: If the 'NgModule' is already bootstrapped, we just get its injector (we don't
    //   // bootstrap again).
    //   Note 2: It is possible that (while there are multiple downgraded modules) this
    //   downgraded component and its parent component both belong to the same NgModule. In
    // that
case, we could have used the 'parentInjector' as both
    // `finalModuleInjector` and
    // `finalParentInjector`, but (for simplicity) we are
    // treating this case as if they belong to different
    // 'NgModule's. That doesn't
    // really affect anything, since 'parentInjector' has 'moduleInjector'
as ancestor
    // and trying to resolve `ComponentFactoryResolver` from either one will return
    // the same instance.
    // If there is a parent component, use its injector as parent
    injector;
    var finalParentInjector = parentInjector || moduleInjector;
    // If this is a "top-level" Angular component, use the module injector.
    var
    finalModuleInjector = finalParentInjector.
    // If there is a parent component that belongs to the same 'NgModule', use its
    injector;
    var finalModuleInjector = moduleInjector || parentInjector;
    var doDowngrade = function (injector, moduleInjector) {
      // Retrieve `ComponentFactoryResolver` from the injector tied
to the 'NgModule' this
      // component belongs to.
      var componentFactoryResolver = moduleInjector.get(core.ComponentFactoryResolver);
      var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);
      if (!componentFactory)
        throw new Error('"Expecting ComponentFactory for: "' + getTypeName(info.component));$
      var injectorPromise = new ParentInjectorPromise(element);
      var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, Sparse,
        componentFactory, wrapCallback);
      var projectableNodes = facade.compileContents();$
      facade.createComponent(projectableNodes);
      facade.setInputs(isNgUpgradeLite,
as returned by a call to `downgradeModule()`. It is the module, whose injector will

* @param downgradedModule the name of the downgraded module (if any) that the injectable

*</div>

*

* @param token an `InjectionToken` that identifies a service provided from Angular.

used independently of Angular or

* use it in a downgraded Angular component from a different module.

same Angular module as the injectable, but

* it is _not OK_ to use it in an AngularJS component that may be

service in an upgraded component that is only used

* from a downgraded Angular component provided by the

**NOTE:**

* Not using `ParentInjectorPromise.all` (which is inherited from `SyncPromise`), because

// Closure Compiler (or some related tool) complains:

* // TypeError:

...`.downgrade_component_ParentInjectorPromise.all is not a function`

SyncPromise.all([finalParentInjector, finalModuleInjector]).then(function (_a) {

var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];

return downgradeFn(pInjector,

mInjector);

})

runAsync = true;

};// bracket-notation because of closure - see #14441

directiveFactory['$inject'] = [$COMPILE, $INJECTOR,

PARSE];

return directiveFactory;

}/**

* Synchronous promise-like object to wrap parent injectors,

* to preserve the synchronous nature of AngularJS's `$compile`.

* var ParentInjectorPromise = /** @class */ (function (_super) {

  function (injector) {

    return new ParentInjectorPromise(injector);

  }

  ParentInjectorPromise.prototype.resolve

= function (injector) {

    return new ParentInjectorPromise(injector);

  }

  ParentInjectorPromise.prototype.resolve

  = function (injector) {

    return new ParentInjectorPromise(injector);

  }

  // Release the element to prevent memory leaks.

  element.data(this.injectorKey, this);

  return this;

}];

ParentInjectorPromise.prototype.resolve

= function (injector) {

  return new ParentInjectorPromise(injector);

};// Store the promise on the element.

element.data(this.injectorKey, this);

return this;

);// Store the real injector on the element.

this.element.data(this.injectorKey, injector);

};// Resolve the promise.

_super.prototype.resolve.call(this, injector);

return ParentInjectorPromise

};

/**

* A helper function to allow an Angular service to be accessible from AngularJS.

* Part of the [upgrade/static/api?query=upgrade%2Fstatic]

* library for hybrid upgrade apps that support AOT compilation

* @usageNotes

* ### Examples

* First ensure that the service to be downgraded is provided in an

`NgModule`

* that will be part of the upgrade application. For example, let's assume we have

* defined

`HeroesService`

* that we have included this in our upgrade app `NgModule`

* and that we have upgraded it from the upgrade app.

* Now we can register the `downgradeInjectable` factory function for the service.

* on an AngularJS module.

* Inside an AngularJS component's controller we can get hold of the

* downgraded service via the name we gave when downgrading.

* When using `downgradeModule()`, downgraded injectables will not be

available until the Angular

* module that provides them is instantiated. In order to be safe, you need to ensure that the

* downgraded injectables are not used anywhere _outside_ the part of the app where it is

* guaranteed that their module has been instantiated.

* For example, it is _OK_ to use a downgraded service in an upgraded component that is only used

* from a downgraded Angular component provided by the same Angular module as the injectable, but

* it is _not OK_ to use it in an AngularJS component that may be used independently of Angular

* use it in a downgraded Angular component from a different module.

* @alias token an 'InjectionToken' that identifies a service provided from Angular.

* @param downgradeModuleName the name of the downgraded module (if any) that the injectable

* \"belongs to\", as returned by a call to `downgradeModule()`. It is the module, whose injector will

* be used for instantiating

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* on an AngularJS module.

* Inside an AngularJS component's controller we can get hold of the
the injectable.<br/>

```javascript
var factory = function (Sinjector) {
    return factory[Symbol] = [SinJECTOR];
}

factory['$inject'] = [$INJECTOR];

validateInjectionKey(Sinjector, directedModule, injectorKey, attemptedAction);
var injector = Sinjector.get(injectorKey);
var injectorFactory = injector.get('factory');
var factoryThat = [SinJECTOR];
var returnFactory = factoryThat;
var returnFunction = factoryThat();
var returnFunction = factoryThat();
var returnFunction = factoryThat();
var returnFunction = factoryThat();
var returnFunction = factoryThat();
```

var factory = function (Sinjector) {
    return factory[Symbol] = [SinJECTOR];
}

factory['$inject'] = [$INJECTOR];

validateInjectionKey(Sinjector, directedModule, injectorKey, attemptedAction);
var injector = Sinjector.get(injectorKey);
var injectorFactory = injector.get('factory');
var factoryThat = [SinJECTOR];
var returnFactory = factoryThat;
var returnFunction = factoryThat();
var returnFunction = factoryThat();
var returnFunction = factoryThat();
var returnFunction = factoryThat();
var returnFunction = factoryThat();
```
UpgradeHelper.prototype.prepareTransclusion = function () {
  var this_ = this;
  var transclude = this.directive.transclude;
  var contentChildNodes = this.extractChildNodes();
  var attachChildrenFn = function (scope, cloneAttachFn) {
    // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
    // `Stemplate` is empty. Since the transcluded content comes from
    // Angular, not AngularJS, // there will be no transclusion scope here.
    // Provide a dummy
    `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
    var scope = scope || {};
    function () { return undefined; };
    return return cloneAttachFn(Stemplate, scope);
  };
  var $template = contentChildNodes;
  if (transclude) {
    var slots_1 = Object.create(null);
    var transclude = transclude !== 'object' ? function (templates, scope) { return $$null; } : (function (templates, scope) {
      var slotMap_1 = Object.create(null);
      var filledSlots_1 = Object.create(null);
      // Parse the element selectors.
      Object.keys(transclude).forEach(function (slotName) {
        var selector = transclude[slotName];
        var optional = selector.charAt(0) === '?';
        selector = optional ? selector.substring(1) : selector;
        slotMap_1[selector] = slotName;
        slots_1[slotName] = null; // `null`:
        Defined but not yet filled.
        filledSlots_1[slotName] = optional; // Consider optional slots as filled.
      });
      // Add the matching elements into their slot.
      contentChildNodes.forEach(function (node) {
        var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())] || node.nodeName;
        if (slotName) {
          filledSlots_1[slotName] = true;
          slots_1[slotName] = slots_1[slotName] || [];
          slots_1[slotName].push(node);
        } else {
          $template.push(node);
        }
      });
      // Check for required slots that were not filled.
      Object.keys(filledSlots_1).forEach(function (slotName) {
        if (!filledSlots_1[slotName]) throw new Error("Required transclusion slot '" + slotName + "' on directive: " + _this_.name);
      });
      Object.keys(slots_1).forEach(function (slotName) {
        var nodes = slots_1[slotName];
        slots_1[slotName] = function (scope, cloneAttach) {
          return cloneAttach(nodes, scope);
        };
      });
      // Attach `$$slots` to default slot transclude fn.
      attachChildrenFn.$$slots = slots_1;
      // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
      // removes all text content after the first interpolation and updates it later, after
      // evaluating the expressions. This would result in AngularJS failing to recognize text
      // nodes that start with an interpolation as transcluded content and use the fallback
      // content instead.
      // To avoid this issue, we add a
      // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-
      // joiner) 
      // to empty text nodes (which can only be a result of Angular removing their initial content).
      $template.forEach(function (node) {
        if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) node.nodeValue = '\u200C';
      });
    });
    $template = $template.map(function (node) {
      if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) node.nodeValue = '\u200C';
      return node;
    });
  }
  return attachChildrenFn;
};

UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) {
  var directiveRequire = this.getDirectiveRequire();
  var requiredControllers = this.resolveRequire(directiveRequire);
  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
    var requiredControllersMap_1 = requiredControllers;
    Object.keys(requiredControllersMap_1).forEach(function (key) {
      controllerInstance[key] =
var btcIsObject = typeof this.directive.bindToController === 'object';
if (btcIsObject &
Object.keys(this.directive.scope).length) {
    throw new Error("binding definitions on scope and controller at the same time are not supported.");
} var context = (btcIsObject) ?
this.directive.bindToController : this.directive.scope;
if (typeof context === 'object') {
Object.keys(context).forEach(function (propName) {
    var definition = context[propName];
    var bindingType = definition.charAt(0);
    var bindingOptions = definition.charAt(1);
    var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
    switch (bindingType) {
        case '@':
            case '<':
                _this.inputs.push(inputName);
                _this.inputsRename.push(inputNameRename);
                _this.propertyMap[inputName] = propName;
                break;
        case '=':
            _this.inputs.push(inputName);
            _this.inputsRename.push(inputNameRename);
            _this.propertyMap[inputName] = propName;
            _this.outputs.push(outputName);
            _this.outputsRename.push(outputNameRenameChange);
            _this.propertyMap[outputName] = propName;
            _this.checkProperties.push(propName);
            _this.propertyOutputs.push(outputName);
            break;
        case '&':
            _this.outputs.push(outputName);
            _this.outputsRename.push(outputNameRename);
            _this.propertyMap[outputName] = propName;
            break;
        default:
            var json = JSON.stringify(context);
            throw new Error("Unexpected mapping '" + bindingType +"' in '" + json +"' in '" + _this.name +"' directive.");
    }
});
/**
 * Upgrade ng1 components into Angular.
 */
UpgradeNg1ComponentAdapterBuilder.resolve = function (exportedComponents, $injector) {
    var promises = Object.keys(exportedComponents).map(function (name) {
        var exportedComponent = exportedComponents[name];
        exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
        exportedComponent.extractBindings();
        return Promise
            .resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
            .then(function (template) { return exportedComponent.template = template; });
    });
    return Promise.all(promises);
} var UpgradeNg1ComponentAdapter = /** @class */ (function () {
    function UpgradeNg1ComponentAdapter(helper, scope, template, inputs, outputs, propOuts, checkProperties, propertyMap) {
        this.helper = helper;
        this.template = template;
        this.inputs = inputs;
        this.outputs = outputs;
        this.propOuts = propOuts;
        this.checkProperties = checkProperties;
        this.propertyMap = propertyMap;
        this.controllerInstance = null;
        this.destinationObj = null;
        this.checkLastValues = [];
        this.isElement = null;
        this.directives = helper.directives;
        this.element = helper.element;
        this.element = helper.Element;
        this.componentScope = scope.$new(!(this.directive.scope));
        var controllerType = this.directive.controller;
        if (this.directive.bindToController &
            controllerType) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
            this.destinationObj = this.controllerInstance;
        } else {
            var destinationObj = this.componentScope;
            for (var i = 0; i < inputs.length; i++) {
                this[inputs[i]] = null;
            }
            for (var j = 0; j < outputs.length; j++) {
                var emitter = this[outputs[j]] = new core.EventEmitter();
            }
        }
        if (this.propOuts.indexOf(outputs[j]) === -1) {
            this.setComponentProperty(outputs[j], (function (emitter) {
                return function (value) { return emitter.emit(value); }; })(emitter));
        }
        for (var k = 0; k < propOuts.length; k++) {
            this.checkLastValues.push(INITIAL_VALUE$1);
        }
        UpgradeNg1ComponentAdapter.prototype.ngOnInit = function () {
            // Collect contents, insert and compile
var attachChildNodes = this.helper.prepareTransclusion();

var linkFn = this.helper.compileTemplate(this.template);

var bindToController = this.directive.bindToController;

if (controllerType && !bindToController) {
    var bindToController = this.directive.bindToController;

    if (controllerType) {
        this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    }

    var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    var linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller (if not already done so)
    var preLink = typeof link == 'object' && link.pre;
    var postLink = typeof link == 'object' ? link.post : link;

    if (preLink) {
        preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });

    if (postLink) {
        postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }
}

Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) { this.controllerInstance.$onInit(); }

// Linking
var link = this.directive.link;
var preLink = typeof link == 'object' && link.pre;
var postLink = typeof link == 'object' ? link.post : link;

var attrs = NOT_SUPPORTED;
var transcludeFn = NOT_SUPPORTED;
if (preLink) {
    preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}

linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });

if (postLink) {
    postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}

Hook: $postLink
if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) { this.controllerInstance.$postLink(); }

UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {
    var _this = this;

    var ng1Changes = {};
    Object.keys(changes).forEach(function (name) {
        var change = changes[name];
        _this.setComponentProperty(name, change.currentValue);
        ng1Changes[_this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
        this.destinationObj.$onChanges(ng1Changes);
    }
}

UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {
    var _this = this;

    var destinationObj = this.destinationObj;
    var lastValues = this.checkLastValues;
    var checkProperties = this.checkProperties;
    var propOuts = this.propOuts;

    checkProperties.forEach(function (funcName, i) {
        var value = destinationObj[funcName];
        var last = lastValues[i];
        if (!strictEquals(last, value)) {
            var eventEmitter = _this[propOuts[i]];
            eventEmitter.emit(lastValues[i] = value);
        }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

UpgradeNg1ComponentAdapter.prototype.ngUpdate = function (property, name) {
    var upgradeCount = 0;

    this.helper.update(this.componentScope, this.controllerInstance, property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngUpgrade = function (property, name) {
    var upgradeCount = 0;

    this.helper.upgrade(property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngDowngrade = function (property, name) {
    var upgradeCount = 0;

    this.helper.downgrade(property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {
    var _this = this;

    var ng1Changes = {};
    Object.keys(changes).forEach(function (name) {
        var change = changes[name];
        _this.setComponentProperty(name, change.currentValue);
        ng1Changes[_this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
        this.destinationObj.$onChanges(ng1Changes);
    }
}

UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {
    var _this = this;

    var destinationObj = this.destinationObj;
    var lastValues = this.checkLastValues;
    var checkProperties = this.checkProperties;
    var propOuts = this.propOuts;

    checkProperties.forEach(function (funcName, i) {
        var value = destinationObj[funcName];
        var last = lastValues[i];
        if (!strictEquals(last, value)) {
            var eventEmitter = _this[propOuts[i]];
            eventEmitter.emit(lastValues[i] = value);
        }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

UpgradeNg1ComponentAdapter.prototype.ngUpdate = function (property, name) {
    var upgradeCount = 0;

    this.helper.update(this.componentScope, this.controllerInstance, property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngUpgrade = function (property, name) {
    var upgradeCount = 0;

    this.helper.upgrade(property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngDowngrade = function (property, name) {
    var upgradeCount = 0;

    this.helper.downgrade(property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {
    var _this = this;

    var ng1Changes = {};
    Object.keys(changes).forEach(function (name) {
        var change = changes[name];
        _this.setComponentProperty(name, change.currentValue);
        ng1Changes[_this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
        this.destinationObj.$onChanges(ng1Changes);
    }
}

UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {
    var _this = this;

    var destinationObj = this.destinationObj;
    var lastValues = this.checkLastValues;
    var checkProperties = this.checkProperties;
    var propOuts = this.propOuts;

    checkProperties.forEach(function (funcName, i) {
        var value = destinationObj[funcName];
        var last = lastValues[i];
        if (!strictEquals(last, value)) {
            var eventEmitter = _this[propOuts[i]];
            eventEmitter.emit(lastValues[i] = value);
        }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

UpgradeNg1ComponentAdapter.prototype.ngUpdate = function (property, name) {
    var upgradeCount = 0;

    this.helper.update(this.componentScope, this.controllerInstance, property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngUpgrade = function (property, name) {
    var upgradeCount = 0;

    this.helper.upgrade(property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngDowngrade = function (property, name) {
    var upgradeCount = 0;

    this.helper.downgrade(property, name);
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {
    var _this = this;

    var ng1Changes = {};
    Object.keys(changes).forEach(function (name) {
        var change = changes[name];
        _this.setComponentProperty(name, change.currentValue);
        ng1Changes[_this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
        this.destinationObj.$onChanges(ng1Changes);
    }
}

UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {
    var _this = this;

    var destinationObj = this.destinationObj;
    var lastValues = this.checkLastValues;
    var checkProperties = this.checkProperties;
    var propOuts = this.propOuts;

    checkProperties.forEach(function (funcName, i) {
        var value = destinationObj[funcName];
        var last = lastValues[i];
        if (!strictEquals(last, value)) {
            var eventEmitter = _this[propOuts[i]];
            eventEmitter.emit(lastValues[i] = value);
        }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {
    this.destinationObj[_this.propertyMap[name]] = value;
};
component can be downgraded to an AngularJS component directive. This creates
an AngularJS directive, which bootsnaps the Angular component in that location.
7. Whenever an adapter component is instantiated the host element is owned by the framework
* doing the instantiation. The other framework then instantiates and owns the view for that
 * component. This implies that component bindings will always follow the semantics of the
 * instantiation framework. The syntax is always that of Angular syntax.
8. AngularJS is always bootstrapped first and owns the bottom most view.
9. The new application is running in Angular zone, and therefore it no longer needs calls to
 * $apply().
* ### Example
* ```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp',
adapter.downgradeNg2Component(Ng2Component));
```
imports: [BrowserModule]\n
* })\n
* class MyNg2Module {}\n
*\n
*
document.body.innerHTML =\n
* 'ng1 template: <greet salutation=\"Hello\"
[name]=\"world\">text</greet>';\n
*\n
* adapter.bootstrap(document.body,
['myExample']).ready(function() {\n
* expect(document.body.textContent).toEqual(\"ng1 template: Hello
world! - text\");\n
* });\n
* ```\n
*/\n
UpgradeAdapter.prototype.downgradeNg2Component =
function (component) {\n
this.downgradedComponents.push(component);\n
return
downgradeComponent({ component: component });\n
};\n
/**\n
* Allows AngularJS Component to
be used from Angular.\n
*\n
* Use `upgradeNg1Component` to create an Angular component from
AngularJS Component\n
* directive. The adapter will bootstrap AngularJS component from within the
Angular\n
* template.\n
*\n
* @usageNotes\n
* ### Mental Model\n
*\n
* 1. The
component is instantiated by being listed in Angular template. This means that the\n
* host element is
controlled by Angular, but the component's view will be controlled by\n
* AngularJS.\n
*\n
* ###
Supported Features\n
*\n
* - Bindings:\n
* - Attribute: `<comp name=\"World\">`\n
* Interpolation: `<comp greeting=\"Hello {{name}}!\">`\n
* - Expression: `<comp [name]=\"username\">`\n
* - Event: `<comp (close)=\"doSomething()\">`\n
* - Transclusion: yes\n
* - Only some of the
features of\n
* [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are\n
*
supported:\n
* - `compile`: not supported because the host element is owned by Angular, which does\n
*
not allow modifying DOM structure during compilation.\n
* - `controller`: supported. (NOTE: injection of
`$attrs` and `$transclude` is not supported.)\n
* - `controllerAs`: supported.\n
* - `bindToController`:
supported.\n
* - `link`: supported. (NOTE: only pre-link function is supported.)\n
* - `name`:
supported.\n
* - `priority`: ignored.\n
* - `replace`: not supported.\n
* - `require`: supported.\n
* - `restrict`: must be set to 'E'.\n
* - `scope`: supported.\n
* - `template`: supported.\n
* `templateUrl`: supported.\n
* - `terminal`: ignored.\n
* - `transclude`: supported.\n
*\n
*\n
* ### Example\n
*\n
* ```\n
* const adapter = new UpgradeAdapter(forwardRef(() =>
MyNg2Module));\n
* const module = angular.module('myExample', []);\n
*\n
*
module.directive('greet', function() {\n
* return {\n
* scope: {salutation: '=', name: '=' },\n
*
template: '{{salutation}} {{name}}! - <span ng-transclude></span>'\n
* };\n
* });\n
*\n
*
module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));\n
*\n
* @Component({\n
* selector: 'ng2',\n
* template: 'ng2 template: <greet salutation=\"Hello\" [name]=\"world\">text</greet>'\n
* })\n
* class Ng2Component {\n
* }\n
*\n
* @NgModule({\n
* declarations:
[Ng2Component, adapter.upgradeNg1Component('greet')],\n
* imports: [BrowserModule]\n
* })\n
*
class MyNg2Module {}\n
*\n
* document.body.innerHTML = '<ng2></ng2>';\n
*\n
*
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n
*
expect(document.body.textContent).toEqual(\"ng2 template: Hello world! - text\");\n
* });\n
* ```\n
*/\n
UpgradeAdapter.prototype.upgradeNg1Component = function (name) {\n
if
(this.ng1ComponentsToBeUpgraded.hasOwnProperty(name)) {\n
return
this.ng1ComponentsToBeUpgraded[name].type;\n
}\n
else {\n
return
(this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name))\n
.type;\n
}\n
};\n
/**\n
* Registers the adapter's AngularJS upgrade module for unit testing in
AngularJS.\n
* Use this instead of `angular.mock.module()` to load the upgrade module into\n
* the
AngularJS testing injector.\n
*\n
* @usageNotes\n
* ### Example\n
*\n
* ```\n
*
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n
*\n
* // configure the adapter with
upgrade/downgrade components and services\n
*
upgradeAdapter.downgradeNg2Component(MyComponent);\n
*\n
* let upgradeAdapterRef:
UpgradeAdapterRef;\n
* let $compile, $rootScope;\n
*\n
* // We must register the adapter before any
calls to `inject()`\n
* beforeEach(() => {\n
* upgradeAdapterRef =
upgradeAdapter.registerForNg1Tests(['heroApp']);\n
* });\n
*\n
* beforeEach(inject((_$compile_,
_$rootScope_) => {\n
* $compile = _$compile_;\n
* $rootScope = _$rootScope_;\n
* }));\n

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*it("says hello", (done) => {
   * const element = $compile('<my-component></my-component>')($rootScope);
   * $rootScope.$apply();
   * expect(element.html()).toContain('Hello World!');
   * done();
   * });
* * *

```
* *
* @param modules any AngularJS modules that the upgrade module should depend upon
* @returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS.
*/
UpgradeAdapter.prototype.registerForNg1Tests = function (modules) {
    var _this = this;
    var windowNgMock = window['angular'].mock;
    if (!windowNgMock || !windowNgMock.module) {
        throw new Error('Failed to find `angular.mock.module`.');
    }
    this.declareNg1Module(modules);
    windowNgMock.module(this.ng1Module.name);
    var upgrade = new UpgradeAdapterRef();
    this.ng2BootstrapDeferred.promise.then(function (ng1Injector) {
        upgrade._bootstrapDone(_this.moduleRef, ng1Injector);
    }, onError);
    return upgrade;
};
/**
* Bootstrap a hybrid AngularJS / Angular application.
* * This `bootstrap` method is a direct replacement (takes same arguments for AngularJS * [ `bootstrap` ](https://docs.angularjs.org/api/ng/function/angular.bootstrap) method. Unlike AngularJS, this bootstrap is asynchronous.
* @usageNotes
* * Example
* ```
* const adapter = new UpgradeAdapter(MyNg2Module);
* const module = angular.module('myExample', []);
* module.directive('ng2', adapter.downgradeNg2Component(Ng2));
*
* module.directive('ng1', function() {
*   return {
*      scope: { title: '=' },
*      template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'
*   };
* });
*
* @Component({
*   selector: 'ng2',
*   inputs: ['name'],
*   template: 'ng2[<ng1>[title]="name">transclude</ng1>](<ng-content></ng-content>)'
* })
* class Ng2 {
* }
*
* @NgModule({
*   declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
*   imports: [BrowserModule]
* })
* class MyNg2Module {}
*
* document.body.innerHTML = '<ng2 name="World">project</ng2>';
*
* adapter.bootstrap(document.body, ['myExample']).ready(function() {
*   expect(document.body.textContent).toEqual('ng2[ng1[Hello World!]transclude](project)');
* });
* ```
*/
UpgradeAdapter.prototype.bootstrap = function (element$1, modules, config) {
    var _this = this;
    this.declareNg1Module(modules);
    var upgrade = new UpgradeAdapterRef();
    // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
    var windowAngular = window['angular'];
    windowAngular.resumeBootstrap = undefined;
    this.ngZone.run(function () {
        bootstrap(element$1, [this.ng1Module.name], config);
    });
    var ng1BootstrapPromise = new Promise(function (resolve) {
        if (windowAngular.resumeBootstrap) {
            var originalResumeBootstrap_1 = windowAngular.resumeBootstrap;
            windowAngular.resumeBootstrap = function () {
                windowAngular.resumeBootstrap = originalResumeBootstrap_1;
                var r = windowAngular.resumeBootstrap.apply(this, arguments);
                resolve(r);
                return r;
            };
        } else {
            resolve();
            return r;
        }
    });
    Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(function (_a) {
        var _b = __read(_a, 1);
        ng1Injector = _bi[0];
        element(element$1).data(controllerKey(INJECTOR_KEY), _this.moduleRef.injector);
        _this.moduleRef.injector.get(core.NgZone).run(function () {
            upgrade._bootstrapDone(_this.moduleRef, ng1Injector);
        }, onError);
        return upgrade;
    });
    /**
* Allows AngularJS service to be accessible from Angular.
* * Example
* ```
* @Injectable()
* class Login { ... }
* class Server { ... }
*
* @Injectable()
* class Example {
*   constructor(@Inject('server') server, login: Login) {
*     ...
*   }
* }
*
* module.service('server', Server);
* module.service('login', Login);
* const adapter = new UpgradeAdapter(MyNg2Module);
* adapter.upgradeNg1Provider('login', [asToken: Login]);
* adapter.bootstrap(document.body, [myExample]).ready((ref) => {
*   const example: Example = ref.ng2Injector.get(Example);
* });
```
UpgradeAdapter.prototype.upgradeNg1Provider = function (name, options) {
  var token = options && options.asToken || name;
  this.upgradedProviders.push({
    provide: token,
    useFactory: function ($injector) { return $injector.get(name); },
    deps: [INJECTOR]
  });
};

UpgradeAdapter.prototype.upgradeNg1Provider = function (name, options) {
  var token = options && options.asToken || name;
  this.upgradedProviders.push({
    provide: token,
    useFactory: function ($injector) { return $injector.get(name); },
    deps: [INJECTOR]
  });
};

UpgradeAdapter.prototype.declareNg1Module = function (token) {
  return downgradeInjectable(token);
};

UpgradeAdapter.prototype.declareNg1Module = function (modules) {
  var _this = this;
  if (modules === void 0) { modules = [];
  }
  var delayApplyExps = [];
  var original$applyFn;
  varrootScopePrototype;
  var rootScope;
  var upgradeAdapter = this;
  var ng1Module = this.ng1Module = module_(this.idPrefix, modules);
  var platformRef = platformBrowserDynamic.platformBrowserDynamic();
  this.ngZone = new core.NgZone({
    enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec')
  });
  this.ng2BootstrapDeferred = new Deferred();
  ng1Module.constant(UPGRADE_APP_TYPE_KEY, 1 /* Dynamic */)
    .factory(INJECTOR_KEY, function () { return _this.moduleRef.injector.get(core.Injector); })
    .factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return ({ injector: injector }); }])
    .constant(NG_ZONE_KEY, this.ngZone)
    .factory(COMPILER_KEY, function () { return _this.moduleRef.injector.get(core.Compiler); })
    .config([injector) {
        provide.decorator($ROOT_SCOPE, 'scope', {.injector: $injector});
    }
};

function (rootScopeDelegate) {
  provide.decorator($ROOT_SCOPE, 'scope', {injector: $injector});
}
DynamicNgUpgradeModule = /** @class */ (function () {
  function DynamicNgUpgradeModule() {
  }
  DynamicNgUpgradeModule.prototype.ngDoBootstrap = function () { };
  DynamicNgUpgradeModule = __decorate(
    [core.NgModule(__assign({ jit: true }, ngModule)),
     __metadata("design:paramtypes", [])],
    DynamicNgUpgradeModule);
    return DynamicNgUpgradeModule;
});
platformRef
  .bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions, {
    ngZone: this.ngZone }
  ]).then(function (ref) {
    this.moduleRef = ref;
    this.ngZone.run(function () {
      if (rootScopePrototype) {
        rootScopePrototype.$apply = original$applyFn; // restore original $apply
        while (delayApplyExps.length) {
          rootScope.$apply(delayApplyExps.shift());
        }
        rootScopePrototype = null;
      }
    });
  }).then(function () { return this.ng2BootstrapDeferred.resolve(ng1Injector); }, onError)
  .then(function () {
    var subscription = this.ngZone.onMicrotaskEmpty.subscribe({
      next: function () {
        if (rootScope.$$phase) {
          if (core.isDevMode()) {
            console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.);
          }
        return rootScope.$evalAsync(function () { });
      }
    return rootScope.$digest();
    }
  return rootScope.$on('$destroy', function () { subscription.unsubscribe(); });
  });
});
return ng1Module;}
);
ng1Injector.get($ROOT_SCOPE);
this._readyFn & this._readyFn(this);
/**
 * Register a callback function which is notified upon successful hybrid AngularJS / Angular
 * application has been bootstrapped.
 * The `ready` callback function is invoked inside the Angular zone, therefore it does not require a call to `$apply()`.
 * UpgradeAdapterRef.prototype.ready = function (fn) {
    this._readyFn = fn;
};//
/**
 * Dispose of running hybrid AngularJS / Angular application.
 */
UpgradeAdapterRef.prototype.dispose = function () {
    this.ng1Injector.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef.destroy();
}

/**
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 */
// This file only re-exports content of the `src` folder. Keep it that way.
/**
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 */

/**
 * Generated bundle index. Do not edit.
 */
exports.UpgradeAdapter = UpgradeAdapter;
exports.UpgradeAdapterRef = UpgradeAdapterRef;
exports.VERSION = VERSION;

Object.defineProperty(exports, '__esModule', { value: true });

})})();

//
sourceMappingURL=upgrade.umd.js.map

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/bundles/upgrade.umd.min.js.map
No license file was found, but licenses were detected in source scan.

{"version":3,"file":"upgrade-static.umd.js","sources":[]}
"sourcesContent":[]}
transcludeControllers?: {[key: string]: any};
futureParentElement?: Node;
export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $destroy(): any;
  $digest(): any;
  SevalAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $childTail: IScope;
  $childHead: IScope;
  $nextSibling: IScope;
export interface IAngularBootstrapConfig { strictDi?: boolean;
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean;
  link?: IDirectiveLinkFn;
  name?: string;
  priority?: number;
  replace?: boolean;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean;
  template?: string;
  templateUrl?: string;
  templateNamespace?: string;
  templateExpression?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
  (cloneAttachFn?: ICloneAttachFunction): IAugmentedJQuery;
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): void;
}
export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;
}
export interface IComponent {
  bindings?: { [key: string]: string };
  controller?: string;
  controllerAs?: string;
  require?: DirectiveRequireProperty;
  template?: string;
  templateUrl?: string;
  transclude?: DirectiveTranscludeProperty;
}
export interface IAttributes {
  $observe(attr: string, fn: () => void): void;
}
export interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
}
export interface ITemplateCacheService extends ICacheObject {}
export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;
  totalPendingRequests: number;
}
export interface IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
}
export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;
  totalPendingRequests: number;
}
export interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
}
export interface IInjectorService {
  get(key: string): any;
  has(key: string): boolean;
}
export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): boolean;
}
export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?:
open source used in msx platform services 4.0.0

boolean): Element[];

getLocation(): string;

setLocation(url: string): void;

whenStable(callback: Function): void;

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```

```

```
generator.apply(thisArg, _arguments || []).i, q = [];
return i = {}, verb("next"), verb("throw"), verb("return"), i = {};
// Symbol.asyncIterator = function () { return this; }, i; return i
function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a, b) { q.push([n, v, a, b]) > 1 || resume(n, v); }); }, i[n] = function (v) { if (v, v) return i[v]; }, verb("return"), i, Symbol.asyncIterator = function () { return new Promise(function (resolve, reject) { q.push(["return", v]) > 1 || resume("return", v); }); }); return i;
}

function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a, b) { q.push([n, v, a, b]) > 1 || resume(n, v); }); }; }

function resume(n, v) { try { step(g[n](v)); } catch (e) { settle(q[0][3], e); } }

function step(r) { r.value instanceof __await ? Promise.resolve(r.value.v).then(fulfill, reject) : settle(q[0][2], r); }

function fulfill(value) { resume("next", value); }

function reject(value) { resume("throw", value); }

function settle(f, v) { if (f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }

export function __asyncDelegator(o) {
  var i, p;
  return i = {}, verb("next"), verb("throw", function (e) { throw e; }), verb("return"), i[Symbol.iterator] = function () { return this; }, i; return i
}

export function __asyncValues(o) {
  if (!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");
  var m = o[Symbol.asyncIterator], i;
  return m ? m.call(o) : (o = typeof __values === "function" ? __values(o) : o[Symbol.iterator](), i = {}, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i; return i
}

export function __makeTemplateObject(cooked, raw) {
  if (Object.defineProperty) { Object.defineProperty(cooked, "raw", { value: raw }); } else { cooked.raw = raw; }
  return cooked;
}

export function __importStar(mod) {
  if (mod && mod.__esModule) return mod;
  var result = {};
  if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];
  result.default = mod;
  return result;
}

export function __importDefault(mod) {
  return (mod && mod.__esModule) ? mod : {
    default: mod
  }
}

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$UpgradeAppType';
export const REQUIRE_INJECTOR = '?^?';
```
'bind${capitalAttr}':\n  this.bindonAttr = 'bindon${capitalAttr}';
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from '@angular/core';
import {INgModelController} from '@angular/material';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):\/[\-_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-_]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '' ).replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('
')[0].trim();
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
                                                      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
                                  UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export function validateInjectionKey($injector: IInjectorService, 
    downgradeModule: string, injectionKey: string,
    attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradedModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradedModule) {
        throw new Error('Error while ' + attemptedAction: 'downgradedModule' unexpectedly specified."
      }
      break;
    case UpgradeAppType.Lite:
      if (!downgradedModule && (downgradedModuleCount >= 2)) {
        throw new Error('Error while ' + attemptedAction: 'downgradedModule' not specified."
      }
      break;
    default:
      throw new Error('Error while ' + attemptedAction: 'Not a valid '@angular/upgrade' application."
      }
  }
}

```

---

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component: any) {
  if (ngModel & & supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel))
  } else if (typeof component.registerOnTouched === 'function') {
    component.registerOnTouched = function() {
      return null;
    };
  }
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnInit, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';
import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;
  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery,
    private attrs: IAttributes,
    private scope: IScope,
    private ngModel: INgModelController,
    private parentInjector: Injector,
    private $injector: IInjectorService,
    private $compile: ICompileService,
    private $parse: IParseService,
    private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append(clone);
        });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    const componentRef = childInjector.createComponent(Injector, projectableNodes, this.element[0]);
    this.viewChangeDetector = componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = componentRef.changeDetectorRef;
    this.component = componentRef.instance;

    // testability hook is commonly added during component bootstrap
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    this.componentRef.injector.get(Testability, null).if(testability) {
      this.componentRef.injector.get(TestabilityRegistry).
      return null;
    }

    this.componentRef.injector.get(testabilityRegistry).if(testability) {
      this.componentRef.injector.get(testabilityRegistry).
      return null;
    }

    this.componentRef.location.nativeElement.
    setupInputs(true, input.$observe(documentElement, input.attr));
    this.viewChangeDetector.
    hookupNgModel(this.$scope, this.__锦标);
order to initialize the input in time
        // for `ngOnChanges()`.
        // This is necessary if we are already in a `$digest`,
        // which means that
        // `ngOnChanges()` (which is called by a watcher) will run before the `$observers`
        // callback.
        let unwatch: Function|null = this.componentScope.$watch(() => {
          unwatch !();
          unwatch = null;
          observeFn(attrs[input.attr]);
        });

      } else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } if (expr != null) {
        const watchFn =
            (prop => (currValue:
                 this.updateInput(prop, prevValue, currValue))(input.prop));
        this.componentScope.$watch(expr, watchFn);
      }

    // Invoke `ngOnChanges()` and Change Detection
    // (when necessary)
    const detectChanges = () => this.changeDetector.detectChanges();
    const prototype =
        this.componentFactory.componentType.prototype;
    this.implementsOnChanges = !!(prototype &&
        (<OnChanges>prototype).ngOnChanges);

    this.componentScope.$watch(() => this.inputChangeCount,
        this.wrapCallback(() => {
          // Invoke `ngOnChanges()`
          if (this.implementsOnChanges) {
            const
                inputChanges = this.inputChanges;
            this.inputChanges = {};
            (<OnChanges>this.component).ngOnChanges(inputChanges !);
          }

          // If opted out of propagating digests, invoke change detection
          // when inputs change
          if (!propagateDigest) {
            detectChanges();
          }
        }));

    // If not opted out of propagating digests, invoke change detection on every digest
    if (propagateDigest) {
      this.componentScope.$watch(this.wrapCallback(detectChanges));
    }

    // If necessary, attach the view so that
    // it will be dirty-checked.
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    if (manuallyAttachView || !propagateDigest) {
      let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch !();
        unwatch = null;

        const appRef =
            this.parentInjector.get<ApplicationRef>(ApplicationRef);
        appRef.attachView(this.componentRef.hostView);
      });

      this.viewChangeDetector.markForCheck();
    }

    // If opted out of propagating digests, invoke change detection
    // on every digest if (propagateDigest) {
    //   this.componentScope.Swatch(this.wrapCallback(detectChanges));
    // } else if (this.implmentsOnChanges) {
    //   const 
    //     this.subscribeToOutput(output, expr, isAssignment: boolean = false) {
    //       if (isAssignment && !setter) {
    //         throw new Error('Expression $expr$ is not assignable!');
    //       }
    //       const emitter = this.component[output.prop] as
    //       EventEmitter<any>; if (emitter) {
    //         emitter.subscribe({
    //           next: isAssignment ? (v: any) => setter
    //                             (this.scope, {'$event': v})
    //         });
    //       } else throw new Error('Missing emitter $output.prop$');
    //     }
    //   this.unsubscribeToOutput(output, attr, true);
    // } else if (attrs.hasOwnProperty(output.onAttr)) {
    //   this.subscribeToOutput(output, attr, true);
    // } if (attrs.hasOwnProperty(output.parenAttr)) {
    //   this.subscribeToOutput(output, attr);
    // }
    }
this.inputChangeCount++;
this.component[prop] = currValue;
}

groupProjectableNodes() {
  let
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let
      ngContentSelectors = this.componentFactory.ngContentSelectors;
      return
      groupNodesBySelector(ngContentSelectors, this.element.contents ());
    }

    groupNodesBySelector(ngContentSelectors, this.element.contents ());
  }

    findMatchingNgContentIndex(ngContentSelectors, this.element.contents !());
  }

  findMatchingNgContentIndex(ngContentSelectors, this.element.contents !());
}

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
export function

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 */

import {isFunction} from './util';

export interface

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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';


/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for a downgrading" an Angular component.
 */

this.inputChangeCount++;

this.component[prop] = currValue;

let

ngContentSelectors = this.componentFactory.ngContentSelectors;

return

groupNodesBySelector(ngContentSelectors, this.element.contents ());

}
have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

```typescript
[example upgrade/static/ts/full/module.ts region="ng2-heroes"]

The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `downgraded` component.

```typescript
[example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"]

For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

```typescript
function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean; inputs?: string[]; outputs?: string[]; selectors?: string[]; }): any {
  // ...
}
```

@publicApi
*/

This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.

```typescript
- propagateDigest?: boolean: Whether to perform change detection on the component on every digest. (Default: true)
```

For more details and examples on downgrading multiple modules, special handling is needed when the Angular zone is inside the Angular zone (except if explicitly escaped, in which case we shouldn't force it back in).
'finalParentInjector' is used for all other injection purposes.  (Note that Angular knows to only traverse the component-tree part of that injector, when looking for an injectable and then switch to the module injector.)  // There are basically three cases:
- If there is no parent component (thus no 'parentInjector'), we bootstrap the downgraded
  'NgModule' and use its injector as both 'finalModuleInjector' and 'finalParentInjector'.
- If there is a parent component, but it may belong to a different 'NgModule', then we use the 'parentInjector' as 'finalParentInjector' and this downgraded component's
  declaring 'NgModule's injector as 'finalModuleInjector'.
  Note 1: If the 'NgModule' is already bootstrapped, we just get its injector (we don't need to bootstrap again).
  Note 2: It is possible that (while there are multiple downgraded modules) this downgraded component and its parent component both belong to the same 'NgModule'.
    In that case, we could have used the 'parentInjector' as both 'finalModuleInjector' and 'finalParentInjector', but (for simplicity) we aren't treating this case as if they belong to different 'NgModule's. That doesn't really affect anything, since 'parentInjector' has 'moduleInjector' as ancestor and trying to resolve 'ComponentFactoryResolver' from either one will return the same instance. If there is a parent component, use its injector as parent injector. If this is a "top-level" Angular component, use the module injector.  
  const finalParentInjector = parentInjector || moduleInjector;  // If this is a "top-level" Angular component or the parent component may belong to a different 'NgModule', use the module injector for module-specific dependencies.
  If there is a parent component that belongs to the same 'NgModule', use its injector. 
  const finalModuleInjector = moduleInjector || parentInjector; 
  const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    // Retrieve 'ComponentFactoryResolver' from the injector tied to the 'NgModule' 
    // component belongs to. 
    const injectorPromise = new ParentInjectorPromise(element);
    const componentFactoryPromise = new NewComponentFactoryPromise(element); 
    const injector = injectorPromise.resolve(injector);
    const componentFactory = componentFactoryPromise.resolveComponentFactory(); 
    if (!componentFactory) throw new Error('Expecting ComponentFactory for: ' + getTypeName(info.component));
    const componentFactoryResolver = componentFactoryResolver.resolveComponentFactory(info.component);
    const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, 
      componentFactory, wrapCallback);
    facade.createComponent(projectableNodes); 
    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
    facade.setupOutputs();
    facade.registerCleanup();
    injectorPromise.resolve(facade.getInjector());
    if (ranAsync) {} // If this is run async, it is possible that it is not run inside a digest and initial input values will not be detected.
    scope.$evalAsync(() => {}); 
    const downgradeFn = isNgUpgradeLite ? doDowngrade : (injector: Injector, mInjector: Injector) => {
      if (!ngZone) ngZone = pInjector.get(NgZone);
      wrapCallback(() => doDowngrade(pInjector, mInjector));
    };
    facade.createComponent(projectableNodes); 
    facade.setupInputs(isNgUpgradeLite, info.propagateDigest); 
    facade.setupOutputs();
    facade.registerCleanup();
    directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
    return directiveFactory;
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```javascript
!(this.injectorKey, injector);

    // Release the element to prevent memory leaks.
    this.element = null !;

    // Resolve the promise.
    super.resolve(injector);
  }]

    // Release the element to prevent memory leaks.
    this.element = null !;

    // Resolve the promise.
    super.resolve(injector);
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned
 * by a call to `downgradeModule()`. It is the module, whose injector will
 * be used for instantiating the
 * injectable.<br />
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular module as the injectable, but it is not OK to use it in an AngularJS component that may be used
 * independently of Angular or use it in a downgraded Angular component from a different module.)
 *
 * @returns a 
 * @publicApi
 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}

/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 *
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {IInjectorService} from '../../src/common/src/angular1';

// We have to do a little dance to get the Ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it
// Then we `get` the ng1 injector from the module injector, which triggers the provider to read
// the stored injector and release the reference to it.
let tempInjectorRef: IInjectorService|null = null;

function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}

function tempInjectorFactory() {
  if (!tempInjectorRef) {
    throw new Error('Trying to get the AngularJS injector before it being set.);
  }

  return tempInjectorRef;
}

export default setTempInjectorRef;
```
IInjectorService = tempInjectorRef; // clear the value to prevent memory leaks

export function rootScopeFactory(i: IInjectorService) { return i.get('$rootScope'); }

export function compileFactory(i: IInjectorService) { return i.get('$compile'); }

export function parseFactory(i: IInjectorService) { return i.get('$parse'); }

export const angular1Providers = [
  // We must use exported named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that will be reported at runtime:
  // > Function calls are not supported.
  // > Consider replacing the function or lambda with a reference to an exported function
  // >   Metadata collected contains an error that will be reported at runtime:
  // >   Function calls are not supported.
  // >   Consider replacing the function or lambda with a reference to an exported function
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: 'rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: 'compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: 'parse', useFactory: parseFactory, deps: ['$injector']}
];

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {$INJECTOR, $PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a @link downgradeComponent downgraded component needs to be
 * instantiated. The module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from that point onwards. It allows loading/ bootstrapping the Angular part of a
 * hybrid application lazily and not having to pay the cost up-front. For example, you can have an AngularJS
 * application that uses Angular for specific routes and only instantiate the Angular modules if/when the user
 * visits one of these routes. The Angular module will be bootstrapped once (when requested for the first time)
 * and the same reference will be used from that point onwards. It requires either an @link NgModuleFactory
 * or a function:

 * @usageNotes
 * Apart from UpgradeModule, you can use the rest of the upgrade/static helpers as usual to build a hybrid
 * application. Note that the Angular pieces (e.g. downgraded services) will not be available until the
 * downgraded module has been bootstrapped, i.e. by instantiating a downgraded\n * component.

 * ### downgradeModule

 * @example
 * http://myexample.com
 * @param {string} moduleName The name of the created AngularJS wrapper module. You can use it to declare
 * a dependency in your main AngularJS module.
 * @param {UpgradeAppType} appType The type of the app, e.g. 'static' or 'dynamic'.
 * @param {string} routes The routes for which the Angular module should be
 * bootstrapped. If not specified, the module will be bootstrapped as needed.
 * @return {NgModuleRef} The module instance.
 * @return { NgModuleRef }
important";'>

* You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application. Use one or the other.

* Use `downgradeModule()` if you want to avoid the `UpgradeModule` API. They have different APIs and there are important internal differences between them.

### Differences with `UpgradeModule`

Besides their different API, there are two important internal differences between `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the `NgZone`.
2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `digest()` when changes are detected in the Angular part of the application.

What this means is that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.

For a more detailed discussion of the differences and their implications, see `UpgradeForPerformance`.

### Downgrading multiple modules

It is possible to downgrading multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

- Each downgraded module must have a separate `Provider` for each associated downgraded component or injectable.
- If you want some injectables to be shared among all downgraded modules, you can provide them as `Provider`s, when creating the `PlatformRef` (e.g. `platformBrowser` or `platformBrowserDynamic`).
- When using `platformBrowserDynamic` or `platformBrowser` to bootstrap the modules, each one is considered a `root` module. As a consequence, a new instance will be created for every injectable provided in the `root` (via the `injectable` attribute). This is not your intention, you can have a shared module (that will act as the `root`) and create all downgraded modules using that module's injector.

### Downgrading a module

Downgrading a module is a bit more involved:

```javascript
export function downgradeModule<T>(
  moduleFactoryOrBootstrapFn: NgModuleFactory<T>|
  ((extraProviders: StaticProvider[]) => Promise<NgModuleRef<T>>): string {
    // Implementation...
```

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NgAdapterInjector(ref.injector); ng injector.get(SINJECTOR); injector = return injector;

($injector: IInjectorService, $provide: IProvideService) => { ng return lazyModuleName; injector = new function identity<T = any>(x: T): T { ng return x; } return injector;*

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* style license that can be found in the LICENSE file at https://angular.io/license
*

import { ElementRef, Injector, SimpleChanges } from '@angular/core';

import { DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILnFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement } from './angular1';

import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';

import { controllerKey, directiveNormalize, isFunction } from './util';


// Constants
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,
      directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error(`Only support single directive definition for: ${name}`);
    }

    const directive = directives[0];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. \n    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
  }

  getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string | Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template = $templateCache.get(url);

      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else if (!fetchRemoteTemplate) {
            throw new Error('loading directive templates asynchronously is not supported');
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }

  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.

    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {
      '$scope': $scope, 'Element': isElement, 'Element': isElement, 'Element': isElement,
      'controller': this.$controller(controllerType, locals, null, this.$directive.controllerAs);
    }
    this.$controller.data(!controllerKey(this.$directive.name !), controller); return controller;

    return compileTemplate(template: string); ILnFn {
      if (template === undefined) {
        template = UpgradeHelper.getTemplate(this.$injector, this.$directive, false, this.$Element) as string;
        return this.compileHtml(template);
      }
    }
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    // Remove the controller.
    delete locals['controller'] as any;

    // Remove the template.
    delete locals['template'] as any;

    // Remove the scoped element.
    delete locals['Element'] as any;

    // Remove the function references.
    for (const name in locals) {
      delete locals[name] as any;
    }

    // Remove the references to the directives.
    for (const name in locals) {
      delete locals[name] as any;
    }

    // Remove the references to the functions.
    for (const name in locals) {
      delete locals[name] as any;
    }

    // Remove the references to the variables.
    for (const name in locals) {
      delete locals[name] as any;
    }

    // Remove the references to the classes.
    for (const name in locals) {
      delete locals[name] as any;
    }

    // Remove the references to the interfaces.
    for (const name in locals) {
      delete locals[name] as any;
    }

    // Remove the references to the interfaces.
    for (const name in locals) {
      delete locals[name] as any;
    }

    // Remove the references to the interfaces.
    for (const name in locals) {
      delete locals[name] as any;
    }
controllerInstance && isFunction(controllerInstance.$onDestroy) {
  controllerInstance.$onDestroy();
}

let $destroyed = $scope.$destroy();

if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
  controllerInstance.$onDestroy();
}

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// Clean the jQuery/jqLite data on the component+child elements.
// Equivilet to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
// https://github.com/jquery/jquery/blob/c74e3cd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223
// https://github.com/angular/angular.js/blob/26ddd5f830f902a3d22f4b2aa7b7d0864d688c82/src/jqLite.js#L306-L312
// `cleanData` will invoke the AngularJS `$destroy` DOM event
// https://github.com/angular/angular.js/blob/26ddd5f830f902a3d22f4b2aa7b7d0864d688c82/src/Angular.js#L1911-L1924

angularElement.$onDestroy();

// Provide a dummy `$scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
// A valid way to do this is: undefined

let $template = contentChildNodes;

if (transclude) {
  const slots = Object.create(null);
  const filledSlots = Object.create(null);

  // Parse the element selectors.
  Object.keys(transclude).forEach(slotName => {
    let selector = transclude[slotName];
    const optional = selector.charAt(0) === '?';
    selector = optional ? selector.substring(1) : selector;

    slotMap[selector] = slotName;
    slots[slotName] = null;  // `null`: Defined but not yet filled.
    filledSlots[slotName] = optional;  // Consider optional slots as filled.
  });

  // Add the matching elements into their slot.
  contentChildNodes.forEach(node => {
    const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
    if (slotName) {
      filledSlots[slotName] = true;
      slots[slotName] = slots[slotName] || [];
      slots[slotName].push(node);
    } else {
      $template.push(node);
    }
  });

  // Check for required slots that were not filled.
  Object.keys(filledSlots).forEach(slotName => {
    if (!filledSlots[slotName]) {
      throw new Error(`Required transclusion slot '${SlotName}' on directive: ${this.name}`);
    }
  });

  Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
    const nodes = slots[slotName];
    slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
      return cloneAttach(!nodes, scope);
    };
  });

  // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
  // removes all text content after the first interpolation and updates it later, after
  // evaluating the expressions. This would result in AngularJS failing to recognize text
  // nodes that start with an interpolation as transcluded content and use the fallback
  // content instead.
  // To avoid this issue, we add
  // to empty text nodes (which can only be a result of Angular removing their initial content).
  // NOTE: Transcluded text content that starts with whitespace followed by an interpolation
  // will still fail to be detected by AngularJS v1.6+

  $template.forEach(node => {
    if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
  {
    node.nodeValue = '\u200C';
  }

  

childNodes.push(childNode);\n }\n\n return childNodes;\n }\n\n private getDirectiveRequire():
DirectiveRequireProperty {\n const require = this.directive.require || (this.directive.controller &&
this.directive.name) !;\n\n if (isMap(require)) {\n
Object.keys(require).forEach(key => {\n
const value =
require[key];\n
const match = value.match(REQUIRE_PREFIX_RE) !;\n
const name =
value.substring(match[0].length);\n\n
if (!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n\n return require;\n }\n\n private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
any):\n SingleOrListOrMap<IControllerInstance>|null {\n if (!require) {\n
return null;\n } else if
(Array.isArray(require)) {\n
return require.map(req => this.resolveRequire(req));\n } else if (typeof require
=== 'object') {\n
const value: {[key: string]: IControllerInstance} = {};\n
Object.keys(require).forEach(key =>
value[key] = this.resolveRequire(require[key]) !);\n
return value;\n } else if (typeof require === 'string') {\n
const match = require.match(REQUIRE_PREFIX_RE) !;\n
const inheritType = match[1] || match[3];\n\n
const name = require.substring(match[0].length);\n
const isOptional = !!match[2];\n
const searchParents =
!!inheritType;\n
const startOnParent = inheritType === '^^';\n\n
const ctrlKey = controllerKey(name);\n
const elem = startOnParent ? this.$element.parent !() : this.$element;\n
const value = searchParents ?
elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n\n
if (!value && !isOptional) {\n
throw new Error(\n
`Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n
}\n\n
return value;\n }
else {\n
throw new Error(\n
`Unrecognized 'require' syntax on upgraded directive '${this.name}':
${require}`);\n }\n }\n}\n\nfunction getOrCall<T>(property: T | Function, ...args: any[]): T {\n return
isFunction(property) ? property(...args) : property;\n}\n\n// NOTE: Only works for `typeof T !== 'object'`.\nfunction
isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {\n return value && !Array.isArray(value)
&& typeof value === 'object';\n}\n\nfunction notSupported(name: string, feature: string) {\n throw new
Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);\n}\n","/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {DoCheck, ElementRef,
EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, ÉµlooseIdentical as looseIdentical} from
'@angular/core';\n\nimport {IAttributes, IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService,
ILinkFn, IScope, ITranscludeFunction} from '../../src/common/src/angular1';\nimport {$SCOPE} from
'../../src/common/src/constants';\nimport {IBindingDestination, IControllerInstance, UpgradeHelper} from
'../../src/common/src/upgrade_helper';\nimport {isFunction} from '../../src/common/src/util';\n\nconst
NOT_SUPPORTED: any = 'NOT_SUPPORTED';\nconst INITIAL_VALUE = {\n __UNINITIALIZED__:
true\n};\n\nclass Bindings {\n twoWayBoundProperties: string[] = [];\n twoWayBoundLastValues: any[] = [];\n\n
expressionBoundProperties: string[] = [];\n\n propertyToOutputMap: {[propName: string]: string} =
{};\n}\n\n/**\n * @description\n *\n * A helper class that allows an AngularJS component to be used from
Angular.\n *\n * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that
support AOT compilation.*\n *\n * This helper class should be used as a base class for creating Angular directives\n
* that wrap AngularJS components that need to be \"upgraded\".\n *\n * @usageNotes\n * ### Examples\n *\n *
Let's assume that you have an AngularJS component called `ng1Hero` that needs\n * to be made available in
Angular templates.\n *\n * {@example upgrade/static/ts/full/module.ts region=\"ng1-hero\"}\n *\n * We must create
a `Directive` that will make this AngularJS component\n * available inside Angular templates.\n *\n * {@example
upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\"}\n *\n * In this example you can see that we must
derive from the `UpgradeComponent`\n * base class but also provide an {@link Directive `@Directive`} decorator.
This is\n * because the AOT compiler requires that this information is statically available at\n * compile time.\n *\n
* Note that we must do the following:\n * * specify the directive's selector (`ng1-hero`)\n * * specify all inputs and
outputs that the AngularJS component expects\n * * derive from `UpgradeComponent`\n * * call the base class from
the constructor, passing\n * * the AngularJS name of the component (`ng1Hero`)\n * * the `ElementRef` and
`Injector` for the component wrapper\n *\n * @publicApi\n */\nexport class UpgradeComponent implements
OnInit, OnChanges, DoCheck, OnDestroy {\n private helper: UpgradeHelper;\n\n private $injector:
IInjectorService;\n\n private element: Element;\n private $element: IAugmentedJQuery;\n private

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### UpgradeComponent

**Create a new `UpgradeComponent` instance.** You should not normally need to do this. Instead you should derive a new class from this one and call the super constructor from the base class.

**The `name` parameter should be the name of the AngularJS directive.**

**The `elementRef` and `injector` parameters should be acquired from Angular by dependency injection into the base class constructor.**

```typescript
/**
 * Create a new `UpgradeComponent` instance. You should not normally need to do this.
 * Instead you should derive a new class from this one and call the super constructor from the base class.
 *
 * * The `name` parameter should be the name of the AngularJS directive.
 * * The `elementRef` and `injector` parameters should be acquired from Angular by dependency injection into the base class constructor.
 */

constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {

  this.helper = new UpgradeHelper(injector, name, elementRef);

  this.$injector = this.helper.$injector;

  this.element = this.helper.element;
  this.$element = this.helper.$element;

  this.directive = this.helper.directive;

  this.bindings = this.initializeBindings(this.directive);

  // We ask for the AngularJS scope from the Angular injector, since we will put the new component scope onto the new injector for each component

  const $parentScope = injector.get($SCOPE);

  // QUESTION 1: Should we create an isolated scope if the scope is only true?

  // QUESTION 2: Should we make the scope accessible through `ngOnInit`?

  this.$componentScope = $parentScope.$new(!!this.directive.scope);

  this.initializeOutputs();
}

ngOnInit() {

  // Collect contents, insert and compile template

  const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();

  const linkFn = this.helper.compileTemplate();

  // Instantiate controller

  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;

  if (controllerType) {
    this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
  } else if (bindToController) {
    throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
  }

  // Set up outputs

  this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;

  this.bindOutputs();

  // Require other controllers

  const requiredControllers =

  this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

  // Hook: $onInit

  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
  }

  // Hook: $doCheck

  if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
    const callDoCheck = () => this.controllerInstance.$doCheck();

    this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);

    callDoCheck();
  }

  // Linking

  const link = this.directive.link;
  const preLink = typeof link == 'object' && link.pre;
  const postLink = typeof link == 'object' ? link.post : link;

  const attrs: IAttributes = NOT_SUPPORTED;
  const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;

  if (preLink) {
    preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }

  linkFn(this.$componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});

  if (postLink) {
    postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }

  // Hook: $postLink

  if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }

  // Require other controllers

  const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
  const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;

  twoWayBoundProperties.forEach((propName, idx) => {
    const newValue = this.bindingDestination[propName];
    const oldValue = twoWayBoundLastValues[idx];

    if (looseIdentical(newValue, oldValue)) {
      const outputName = this.propertyToOutputMap[propName];

      this.emitter.emit(newValue);
    }
  });
}
```
twoWayBoundLastValues[idx] = newValue; 
    } 
  } 
  ngOnDestroy() { 
    if 
      (isFunction(this.unregisterDoCheckWatcher) ( this.unregisterDoCheckWatcher); 
    } 
  
  private initializeBindings(directive: IDirective) { 
    const btcIsObject = typeof directive.bindToController === 'object'; 
    if (btcIsObject && 
      Object.keys(directive.scope).length) { 
      throw new Error('Binding definitions on scope and controller at the same time is not supported.'); 
    } 
    const context = btcIsObject ? directive.bindToController : 
      directive.scope; 
    if (typeof context === 'object') { 
      const bindingType = definition.charAt(0); 
      switch (bindingType) { 
        case '@': 
        case '<': 
          // We don't need to do anything special. They will be 
          // defined as inputs on the
          // upgraded component facade and the change propagation will be handled by
          // `ngOnChanges()`. 
          break;
        case '=': 
          bindings.twoWayBoundProperties.push(propName); 
          bindings.twoWayBoundLastValues.push(INITIAL_VALUE); 
          bindings.propertyToOutputMap[propName] = propName + 'Change'; 
          break;
        case '&': 
          bindings.expressionBoundProperties.push(propName);
          bindings.propertyToOutputMap[propName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    } 
    return bindings;
  }

  private initializeOutputs() { 
    // Initialize the outputs for `=` and `&` bindings
    this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
      .forEach(propName => {
        const outputName = this.bindings.propertyToOutputMap[propName];
        (this as any)[outputName] = new EventEmitter();
      });
  }

  private bindOutputs() { 
    // Bind `&` bindings to the 
    // corresponding outputs
    this.bindings.expressionBoundProperties.forEach(propName => {
      const outputName = this.bindings.propertyToOutputMap[propName];
      const emitter = (this as any)[outputName];

      this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
  }

  private forwardChanges(changes: SimpleChanges) { 
    // Forward input changes to 'bindingDestination'
    Object.keys(changes).forEach(propName => this.bindingDestination[propName] = 
      changes[propName].currentValue); 
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, NgZone, Testability, isDevMode} 
from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, 
element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import
{$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, 
LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from 
'../../src/common/src/constants';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide
 * AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * Part of the 
 * LazyModule, SINTERVAL, SPROVIDE, INJECTOR_KEY,
 * LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME
 */

@NgModule({
  imports: [{
    /**
     * @license
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     * Rights Reserved.
     */

   ']/angular1/providers, setTempInjectorRef from './angular1_providers';

    import {LazyModuleRef, UpgradeAppType, controllerKey} from 

    './.src/common/src/constants';

    import {Angular1Providers, setTempInjectorRef from './angular1_providers';

    import {NgAdapterInjector} from './util';

    import {LazyModuleRef, UpgradeAppType, controllerKey} from 

    './.src/common/src/upgrade';

    import {LazyModuleRef, UpgradeAppType, controllerKey} from 

    './.src/common/src/upgrade';
4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See `downgradeInjectable`. Bootstrapping of a hybrid Angular application which contains both of the frameworks coexisting in a single application. import {UpgradeModule} from '@angular/upgrade/static'; See also the [link UpgradeModule#examples examples] below. When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

5. An AngularJS component can be 'upgraded' to an Angular component. This is achieved by defining an Angular directive, which bootstraps the Angular component at its location in the DOM. See `UpgradeComponent`. An Angular component can be 'downgraded' to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. Whenever an 'upgraded' component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that the component bindings will always follow the semantics of the instantiation framework. The DOM attributes are parsed by the framework that owns the current template. attributes in AngularJS templates must use camelCase.

3. However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. The `UpgradeModule` class

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS services, and has an instance method used to bootstrap the hybrid upgrade application.

### Examples

Import the `UpgradeModule` into your top level `NgModule`.

```
import {UpgradeModule} from '@angular/upgrade/static';
```

Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level `AngularJS` module onto an element in the DOM. It also contains properties to access the `UpgradeModule`’s root injector, the bootstrap `NgZone` and the `AngularJS` Sinjector.

```
import {UpgradeModule} from '@angular/upgrade/static';
```

Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.

```
import {UpgradeModule} from '@angular/upgrade/static';
```
The Angular Injector

```
/**
 * The root 'Injector' for the upgrade application.
 */

public injector: Injector;

constructor(
  /** The root `Injector` for the upgrade application */
  injector: Injector, 
  /** The bootstrap zone for the upgrade application */
  ngZone: NgZone) {
  this.injector = new NgAdapterInjector(injector);
}

/**
 * Bootstrap an AngularJS application from this NgModule
 */

bootstrap(
  element: Element, modules: string[] = [], 
  config?: any /*angular.IAngularBootstrapConfig*/) {

  const INIT_MODULE_NAME = UPGRADE_MODULE_NAME + '.init';
  const initModule = angularModule(INIT_MODULE_NAME, [])[0].constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static).

  // Create an ng1 module to bootstrap
  const initModule = angularModule(INIT_MODULE_NAME, [])[0].constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static).

  // Make sure resumeBootstrap() only exists if the current
bootstrap is deferred
const windowAngular = (window as any)['angular'];
windowAngular.resumeBootstrap = undefined;

// Bootstrap the AngularJS application inside our zone
this.ngZone.run(() => {
  bootstrap(element, [upgradeModule.name], config);
});

// Patch resumeBootstrap() to run inside the ngZone
if (windowAngular.resumeBootstrap) {
  const originalResumeBootstrap: () => void =
    windowAngular.resumeBootstrap;
  const ngZone = this.ngZone;
  windowAngular.resumeBootstrap = function() {
    let args = arguments;
    windowAngular.resumeBootstrap = originalResumeBootstrap;
    return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
  };
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

export {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from
  '../src/common/src/angular1';
export {downgradeComponent} from
  '../src/common/src/downgrade_component';
export {downgradeInjectable} from
  '../src/common/src/downgrade_injectable';
export {VERSION} from '../src/common/src/version';

// This file only re-exports items to appear in the public api. Keep it that way.
/**
 * Generated bundle index. Do not edit.
 */

export * from './public_api';

export {angular1Providers as ɵangular_packages_upgrade_static_static_e,compileFactory as ɵangular_packages_upgrade_static_static_c,injectorFactory as ɵangular_packages_upgrade_static_static_a,parseFactory as ɵangular_packages_upgrade_static_static_d,rootScopeFactory as ɵangular_packages_upgrade_static_static_b} from
  './src/angular1_providers';
static.umd.js.map

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

{ "version": 3, "file": "static__testing.js", "sources": ["./../.././../packages/upgrade/src/common/src/angular1.ts", ".../../../..../packages/upgrade/src/common/src/consts.ts", ".../../../..../packages/upgrade/static/testing/src/create_angulartesting_module.ts", ".../../../..../packages/upgrade/static/testing/src/create_angularjs_testing_module.ts", ".../../../..../packages/upgrade/static/testing/testing.ts" ], "sourcesContent": ["/**
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 * found in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of '@types/angular' typings extend the global 'Function' interface with
  // $inject: [string | Function] but 'Injectable' in latest versions is
  // $inject: string | Function
  $inject?: string[];
}

export interface ICompileService {
  (element: Element|NodeList|Node[], transclude?: Function): ILinkFn;
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  futureParentElement?: Node;
}

export interface IScope extends IRootScopeService {}

export interface IComponent {
  bindings?: {
    [key: string]: string;
  };
}

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(see https://github.com/angular/angular/issues/30050).

```typescript
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (element) => angular.element(element);
element.cleanData = nodes => angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

/**
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 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

/**
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 */

import {Injector, NgModule, Type} from '@angular/core';

import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';

let $injector: angular.IInjectorService|null = null;
let injector: Injector;

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]
})
export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon upgraded AngularJS services.
 * This function returns an `NgModule` decorated class that is configured to wire up the Angular and AngularJS
 * injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to
 * unit test services. In the following code snippet, we are configuring the TestBed with two imports.
 * The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS
 * part. This function returns an `NgModule` decorated class that is configured to wire up the AngularJS
 * and AngularJS injectors without the need to actually bootstrap a hybrid application. This
 * makes it simpler and faster to unit test services.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as
 * needed by the AngularJS `Injector`. In the following code snippet, 'HeroesService' is an Angular service
 * that depends upon an AngularJS service, 'titleCase'. This helper is for testing services not Components.
 * For Component testing you must still bootstrap a hybrid app. See 'UpgradeModule' or for more information.
 * The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the
 * responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS
 * handlers of async events from AngularJS. Do not use 'createAngularTestingModule' in the same spec as
 * 'createAngularJSTestingModule'.
 */
createAngularTestingModule

```typescript
function createAngularTestingModule(angularJSModules: string[]): Type<any> {
    angular.module_('$$angularJSTestingModule', angularJSModules)
        .constant(UPGRADE_APP_TYPE_KEY,
            UpgradeAppType.Static)
        .factory(INJECTOR_KEY, () => injector);
    $injector = angular.injector(['ng', '$$angularJSTestingModule'], strictDi);
    return AngularTestingModule;
}
```

**Public API**

```typescript
@publicApi
```

```typescript
function createAngularJUnitestingModule(angularModules: any[]): string {
    return ng.module_('$$angularJSTestingModule', [])
        .constant(UPGRADE_APP_TYPE_KEY,
            UpgradeAppType.Static)
        .factory(INJECTOR_KEY, {
            $injector: ng.IInjectorService => {
                TestBed.configureTestingModule({
                    imports: angularModules,
                    providers: [{provide: INJECTOR, useValue: $injector}]
                });
                return TestBed.inject(Injector);
            }
        })
        .name;
}
```

**Public API**

```typescript
@publicApi
```

```typescript
@publicApi
```

**Public API**

```typescript
@publicApi
```
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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
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```javascript
/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

(function (global, factory) {
    typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports, require('@angular/core'), require('@angular/platform-browser')) :
    typeof define === 'function' && define.amd ?
    define('@angular/upgrade/static', 
    ['exports', '@angular/core', '@angular/platform-browser'], factory) :
    (global =
    global || self, factory((global.ng = global.ng || {},
    global.ng.upgrade =
    global.ng.upgrade || {},
    global.ng.upgrade.static = {}),
    global.ng.core, global.ng.platformBrowser));
}(this, (function (exports, core, platformBrowser) {
    'use strict';

    /**
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     * found in the LICENSE file at https://angular.io/license
     */
    function noNg() {
        throw new Error('AngularJS v1.x is not loaded!');
    }
    var noNgElement = (function () { return noNg(); });
    noNgElement.cleanData = noNg;
    var angular =
```
switch (upgradeAppType) {
    case 1 /* Dynamic */:
    case 2 /* Static */:
        if (downgradedModule) {
            throw new Error("Error while " + attemptedAction + ": 'downgradedModule' unexpectedly specified.\n" +
                        'You should not specify a value for ' +
                        'downgradedModule\', unless
                        'you are downgrading ' +
                        'more than one Angular module (via ' +
                        'downgradeModule\(\)).\n\n}\n        break;
    case 3 /* Lite */:
        if (!downgradedModule && (downgradedModuleCount >= 2)) {
            throw new Error("Error while " + attemptedAction + ": 'downgradedModule' not specified.\n" +
                        'This application contains more than one downgraded Angular module, thus you need to ' +
                        'always specify ' +
                        'downgradedModule\ when downgrading components and
injectables.\n\n}\n        break;
    default:
        throw new Error("Error while " + attemptedAction + ": Not a valid '@angular/upgrade' application.\n" +
                        'Did you forget to downgrade an Angular module or include it in the AngularJS ' +
                        'application?\n\n}\n
/**
 * @return Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for AngularJS 'ng-model'\n *     compatibility.\n * *\n * @license
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 * license that can be
 * found in the LICENSE file at https://angular.io/license
 *\n */
var INITIAL_VALUE = {
    __UNINITIALIZED__: true
};
var DowngradeComponentAdapter = /** @class */ (function () {
    function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile, $parse, componentFactory, wrapCallback) {
        this.element = element;
        this.attrs = attrs;
        this.scope = scope;
        this.ngModel = ngModel;
        this.parentInjector = parentInjector;
        this.$injector = $injector;
        this.$compile = $compile;
        this.$parse = $parse;
        this.componentFactory = componentFactory;
        this.wrapCallback = wrapCallback;
        this.implementsOnChanges = false;
        this.inputChangeCount = 0;
        this.componentScope = scope.$new();
    }
    DowngradeComponentAdapter.prototype.compileContents = function () {
        var _this = this;
        var compiledProjectableNodes = [];
        var projectableNodes = this.groupProjectableNodes();
        var linkFns = projectableNodes.map(function (nodes) { return _this.$compile(nodes); });
        this.element.empty();
        linkFns.forEach(function (linkFn) {
            linkFn(this.scope, function (clone) {
                compiledProjectableNodes.push(clone);
                this.element.append(clone);
            });
        });
        return compiledProjectableNodes;
    };
    DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
        var providers = [ { provide: $SCOPE, useValue: this.componentScope } ];
        var childInjector = core.Injector.create({
            providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });
        var this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
        this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
    };
    var __UNINITIALIZED__ = true;
    var DowngradeComponentAdapter = /** @class */ (function () {
        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile, $parse, componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrapCallback = wrapCallback;
            this.implementsOnChanges = false;
            this.inputChangeCount = 0;
            this.componentScope = scope.$new();
        }
        DowngradeComponentAdapter.prototype.compileContents = function () {
            var _this = this;
            var compiledProjectableNodes = [];
            var linkFns = projectableNodes.map(function (nodes) { return _this.$compile(nodes); });
            this.element.empty();
            linkFns.forEach(function (linkFn) {
                linkFn(this.element, function (clone) {
                    compiledProjectableNodes.push(clone);
                    this.element.append(clone);
                });
            });
            return compiledProjectableNodes;
        };
        DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
            var providers = [ { provide: SSCOPE, useValue: this.componentScope } ];
            var childInjector = core.Injector.create({
                providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });
            var this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
        };
    }();
}();
*/
};
/**
 * Glue the AngularJS `NgModelController` (if it
 * exists) to the component
 * (if it implements the needed subset of the `ControlValueAccessor` interface).
 */
function hookupNgModel(ngModel, component) {
    if (ngModel && supportsNgModel(component)) {
        ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };
        component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
        if (typeof component.registerOnTouched === 'function') {
            component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
        }
    }
}
/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
function strictEquals(val1, val2) {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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this.changeDetector = this.componentRef.changeDetectorRef;
        this.component = this.componentRef.instance; // testability hook is commonly added during component bootstrap in
        // packages/core/src/application_ref.bootstrap
        // in downgraded application, component creation will take place here as well as adding the
        // testability hook.
        var testability = this.componentRef.injector.get(core.Testability, null);
        if (testability) {
            var inputs = this.componentFactory.inputs || [];
            var _loop_1 = function (i) {
                var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
                var prevValue = INITIAL_VALUE;
                var observeFn_1 = (function (prop) {
                    var prevValue = INITIAL_VALUE;
                    return function (currValue) {
                        if (!strictEquals(prevValue, currValue)) {
                            prevValue = currValue;
                            _this.updateInput(prop, prevValue, currValue);
                            prevValue = currValue;
                        }
                    };
                })(input.prop);
                attrs.$observe(input.attr, observeFn_1);
                // Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time
                // for `ngOnChanges()`.
                // This is necessary if we are already in a `$digest`,
                // which means that
                // `$observe()` (which is called by a watcher) will run before the `$observe()`
                // callback.
                var unwatch_1 = this.componentScope.$watch(function () {
                    unwatch_1();
                    var observeFn_1 = (function (prop) {
                        return function (currValue, prevValue) {
                            return _this.updateInput(prop, prevValue, currValue);
                        };
                    })(input.prop);
                    this.componentScope.$watch(observeFn_1);
                });
                unwatch_1();
                if (attrs.hasOwnProperty(input.bindAttr)) {
                    expr = attrs[input.bindAttr];
                }
                else if (attrs.hasOwnProperty(input.bracketAttr)) {
                    expr = attrs[input.bracketAttr];
                }
                else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
                    expr = attrs[input.bracketParenAttr];
                }
                else if (attrs.hasOwnProperty(input.bindonAttr)) {
                    expr = attrs[input.bindonAttr];
                }
                if (expr != null) {
                    var watchFn = (function (prop) { return function (currValue, prevValue) {
                        return _this.updateInput(prop, prevValue, currValue);
                    }; })(input.prop);
                    this.componentScope.$watch(expr, watchFn);
                }
            };
            for (var i = 0; i < inputs.length; i++) {
                _loop_1(i);
            }
            // Invoke `ngOnChanges()` and Change Detection (when necessary)
            var detectChanges = function () {
                return _this.changeDetector.detectChanges();
            };
            var prototype = this.componentFactory.componentType.prototype;
            this.implementsOnChanges = !!(prototype &&
            prototype.ngOnChanges());
            this.componentScope.$watch(function () {
                return _thisInputChangeCount;
            });
            // If necessary, attach the view so that it will be dirty-checked.
            // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
            if (manuallyAttachView || !propagateDigest) {
                var unwatch_2 = this.componentScope.$watch(function () {
                    return unwatch_2();
                });
            }
        }
        else if (propagateDigest) {
            if (detectChanges()) {
                var appRef = _this.parentInjector.get(core.ApplicationRef);
                appRef.attachView(_this.componentRef.hostView);
            }
        }
    });
</pre>
outputs = this.componentFactory.outputs || [];  
for (var j = 0; j < outputs.length; j++) {
  var output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
  var bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
  var bracketParenAttr = `[\(\)` + output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8) + `\)`];
  // order below is important - first update bindings then evaluate expressions
  if (attrs.hasOwnProperty(bindonAttr)) {
    this.subscribeToOutput(output, attrs[bindonAttr], true);
  }
  if (attrs.hasOwnProperty(bracketParenAttr)) {
    this.subscribeToOutput(output, attrs[bracketParenAttr], true);
  }
}
DowngradeComponentAdapter.prototype.subscribeToOutput = function (output, expr, isAssignment) {
  var _this = this;
  var getter = this.$parse(expr);
  var setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error("Expression '" + expr + "' is not assignable!");
  }
  var emitter = this.component[output.prop];
  if (emitter) {
    emitter.subscribe({
      next: isAssignment
        ? function (v) { return setter(_this.scope, v); } : function (v) { return getter(_this.scope, { '$event': v }); }
    });
  }
}
DowngradeComponentAdapter.prototype.registerCleanup = function () {
  var _this = this;
  var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);
  var destroyComponentRef = this.wrapCallback(function () { return _this.componentRef.destroy(); });
  var destroyed = false;
  this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });
  this.componentScope.$on('$destroy', function () {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });
}
DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; }
DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}
DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {
  var ngContentSelectors = this.componentFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents());
}
function groupNodesBySelector(ngContentSelectors, nodes) {
  var projectableNodes = [];
  var wildcardNgContentIndex;
  for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
    projectableNodes[i] = [];
  }
  for (var j = 0, jj = nodes.length; j < jj; ++j) {
    var node = nodes[j];
    var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    if (ngContentIndex != null) {
      projectableNodes[ngContentIndex].push(node);
    }
  }
  return projectableNodes;
}
function findMatchingNgContentIndex(element, ngContentSelectors) {
  var ngContentIndices = [];
  var wildcardNgContentIndex = -1;
  for (var i = 0; i < ngContentSelectors.length; i++) {
    var selector = ngContentSelectors[i];
    if (matchesSelector(element, selector)) {
      ngContentIndices.push(i);
    }
    if (selector === '*') {
      wildcardNgContentIndex = i;
    }
  }
  ngContentIndices.sort();
  if (wildcardNgContentIndex !== -1) {
    return projectableNodes[ngContentIndices.push(node)];
  }
  return projectableNodes[ngContentIndices.length - 1];
}
function matchesSelector(element, selector) {
  var matches = element.matches(selector);
  return matches || elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector || elProto.msMatchesSelector || elProto.oMatchesSelector || elProto.webkitMatchesSelector;
}

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Node.ELEMENT_NODE ? _matches.call(el, selector) : false

/**
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 */

var isNgUpgradeLite = getUpgradeAppType($injector) === 3 /* Lite */;

//   Angular zone.
//   NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` dirty-checked.
// - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
//   Angular zone (except if explicitly escaped, in which case we shouldn't

// When using `downgradeModule()`, we need to handle certain things specially. For example:
// - We always need to attach the component view to the `ApplicationRef` for it to be
// dirty-checked.
// - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the

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var wrapCallback = !isNgUpgradeLite ? function (cb) { return cb; } : function (cb) { return function () { return core.NgZone.isInAngularZone() ? cb() : ngZone.run(cb); }; };

var ngZone;

// When downgrading multiple modules, special handling is needed wrt injectors.
var hasMultipleDowngradedModules = isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

return [null, require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL], link: function (scope, element, attrs, required) {
  // We might have to compile the contents asynchronously, because this might have been
  // triggered by UpgradeNg1ComponentAdapterBuilder, before the
  // Angular templates have
  // been compiled.
  var ngModel = required[1];
  var parentInjector = required[0];
  var moduleInjector = undefined;
  var ranAsync = false;

  if (!parentInjector || hasMultipleDowngradedModules) {
    var downgradedModule = info.downgradedModule || lazyModuleRef || lazyModuleRefKey;
    var attemptedAction =  
    moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;
  }

  Notes:
  // There are two injectors: finalModuleInjector and finalParentInjector (they
  // might be
  // the same instance, but that is irrelevant):
  // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be
  //   on the same tree as the `NgModule` that declares this downgraded component.
  // - `finalParentInjector` is used for all other injection purposes.
  //   (Note that Angular knows to only traverse the component-tree part of that injector,
  //   when looking for an injectable and then switch to the module.injector.)
  // There are basically three cases:
  // - If there is no parent component (thus no `parentInjector`), we
  //   bootstrap the downgraded
  //   `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
  // - If there is a parent component (and thus a `parentInjector`) and we
  //   are sure that it
  //   belongs to the same `NgModule` as this downgraded component (e.g. because there
  //   is only
  //   one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and
  //   `finalParentInjector`.
  // - If there is a parent component, but it may belong to a different
  //   `NgModule`, then we
  //   use the `parentInjector` as `finalParentInjector` and this downgraded
  //   component
  //   declaring `NgModule`’s injector as `finalModuleInjector`.
  // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don’t
  //   bootstrap again).
  // Note 2: It is possible that (while there are multiple downgraded modules) this
  //   downgraded component and its parent component both belong to the same NgModule.
  //   In that
case, we could have used the `parentInjector` as both `finalModuleInjector` and
  //   `finalParentInjector`, but (for simplicity) we are
  // treating this case as if they belong to different
  //   `NgModule`’s. That doesn’t
  // really affect anything, since `parentInjector` has `moduleInjector` as ancestor
  // and trying to resolve `ComponentFactoryResolver` from either one will return
  // the same instance.
  // If there is a parent component, use its injector as parent
  // injector.
  // If this is a "top-level" Angular component, use the module injector.
  var finalParentInjector = parentInjector || moduleInjector;

  // If this is a "top-level" Angular component or the
  // parent component may belong to
  // different `NgModule`, use the module injector for module-
specific dependencies.
  // If there is a parent component that belongs to the same `NgModule`, use its
  // injector.
  var finalModuleInjector = moduleInjector || parentInjector;

  var doDowngrade = function (injector, moduleInjector) {
    // Retrieve `ComponentFactoryResolver` from the injector tied
to the `NgModule` this
    // component belongs to.
    var componentFactoryResolver = moduleInjector.get(core.ComponentFactoryResolver);
    var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);

    if (!componentFactory) {
      throw new Error("Expecting ComponentFactory for: "+ getTypeName(info.component));
    }

    var injectorPromise = new ParentInjectorPromise(element);
    var facade
= new DowngradeComponentAdapter(element, atts, scope, ngModel, injector, Sinjector, $compile, Sparse,
  componentFactory, wrapCallback);  
  var projectableNodes = facade.compileContents();
  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);  
  facade.setupOutputs();
  facade.registerCleanup();

  injectorPromise.resolve(facade.getInjector());
  if (ranAsync) {
    // If this is run async, it is possible that it is not run inside an // digest and initial input values will not be detected.
    scope.$evalAsync(function () { });
  }

  var downgradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {
    if (!ngZone) {
      ngZone = pInjector.get(core.NgZone);
    }

    wrapCallback(function () { return doDowngrade(pInjector, mInjector); })();
  };

  // NOTE:
  // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
  // Closure Compiler (or some related tool) complains:
  // "TypeError: ...
  
  SyncPromise.all([finalParentInjector, finalModuleInjector]).then(function (_a) {
    var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];
    return downgradeFn(pInjector, mInjector);
  });

  // bracket-notation because of closure - see #14441
  directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
  return directiveFactory;

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`.
 */
var ParentInjectorPromise = /** @class */ (function (_super) {
  __extends(ParentInjectorPromise, _super);  
  function ParentInjectorPromise(element) {
    var _this = _super.call(this) || this;
    _this.element = element;
    _this.injectorKey = controllerKey(INJECTOR_KEY);
    // Store the promise on the element.
    element.data(_this.injectorKey, _this);
    return _this;
  }
  ParentInjectorPromise.prototype.resolve = function (injector) {
    // Store the real injector on the element.
    this.element.data(this.injectorKey, injector);
    // Release the element to prevent memory leaks.
    this.element = null;
    // Resolve the promise.
    _super.prototype.resolve.call(this, injector);
  };

  return ParentInjectorPromise;
})();

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 */
/**
 * @description
 *
 * A helper function to allow an Angular
 * service to be accessible from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)* library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory
 * function that provides access to the Angular
 * service identified by the `token` parameter.
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is provided in an
 * `NgModule` * that will be part of the upgrade application. For example, let's assume we have
 * defined
 *
 * `HeroesService` * @example upgrade/static/ts/full/module.ts region="ng2-heroes-service"*/
 * and that we have included this in our upgrade app `NgModule` * @example
 * upgrade/static/ts/full/module.ts region="ng2-module"*/
 * Now we can register the `downgradeInjectable`
 * factory function for the service in
 * * on an AngularJS module.
 *
 * * Inside an AngularJS component's controller we can get hold of the
 * * downgraded service via the name we gave when
 * downgrading.
 *
 * * From a downgraded Angular component provided by the
 * same Angular module as the injectable, but
 * * it is _not_ OK to use it in an AngularJS component that may be
 * used independently of Angular or
 * * use it in a downgraded Angular component from a different module.

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*\n * </div>\n *\n * @param token an `InjectionToken` that identifies a service provided from Angular.\n
* @param downgradedModule the name of the downgraded module (if any) that the injectable\n * \"belongs to\",
as returned by a call to `downgradeModule()`. It is the module, whose injector will\n * be used for instantiating
the injectable.<br />\n * (This option is only necessary when using `downgradeModule()` to downgrade more
than one Angular\n * module.)\n *\n * @returns a [factory function](https://docs.angularjs.org/guide/di) that
can be\n * used to register the service on an AngularJS module.\n *\n * @publicApi\n */\n function
downgradeInjectable(token, downgradedModule) {\n
if (downgradedModule === void 0) { downgradedModule
= ''; }\n
var factory = function ($injector) {\n
var injectorKey = \"\" + INJECTOR_KEY +
downgradedModule;\n
var injectableName = isFunction(token) ? getTypeName(token) : String(token);\n
var attemptedAction = \"instantiating injectable '\" + injectableName + \"'\";\n
validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);\n
var injector =
$injector.get(injectorKey);\n
return injector.get(token);\n
};\n
factory['$inject'] = [$INJECTOR];\n
return factory;\n }\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use
of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n /**\n * @publicApi\n */\n var VERSION = new
core.Version('9.0.7');\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use
of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n // We have to do a little dance to get the ng1 injector into the module injector.\n
// We store the ng1 injector so that the provider in the module injector can access it\n // Then we \"get\" the ng1
injector from the module injector, which triggers the provider to read\n // the stored injector and release the
reference to it.\n var tempInjectorRef = null;\n function setTempInjectorRef(injector) {\n
tempInjectorRef =
injector;\n }\n function injectorFactory() {\n
if (!tempInjectorRef) {\n
throw new Error('Trying to get
the AngularJS injector before it being set.');\n
}\n
var injector = tempInjectorRef;\n
tempInjectorRef =
null; // clear the value to prevent memory leaks\n
return injector;\n }\n function rootScopeFactory(i) {\n
return i.get('$rootScope');\n }\n function compileFactory(i) {\n
return i.get('$compile');\n }\n function
parseFactory(i) {\n
return i.get('$parse');\n }\n var angular1Providers = [\n
// We must use exported
named functions for the ng2 factories to keep the compiler happy:\n
// > Metadata collected contains an error
that will be reported at runtime:\n
// > Function calls are not supported.\n
// > Consider replacing the
function or lambda with a reference to an exported function\n
{ provide: '$injector', useFactory: injectorFactory,
deps: [] },\n
{ provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector'] },\n
{ provide:
'$compile', useFactory: compileFactory, deps: ['$injector'] },\n
{ provide: '$parse', useFactory: parseFactory,
deps: ['$injector'] }\n ];\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n *
Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n var NgAdapterInjector = /** @class */ (function () {\n
function
NgAdapterInjector(modInjector) {\n
this.modInjector = modInjector;\n
}\n
// When Angular locate a
service in the component injector tree, the not found value is set to\n
//
`NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module\n
// injector.\n
// AngularJS only supports a single tree and should always check the module injector.\n
NgAdapterInjector.prototype.get = function (token, notFoundValue) {\n
if (notFoundValue ===
core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {\n
return notFoundValue;\n
}\n
return this.modInjector.get(token, notFoundValue);\n
};\n
return NgAdapterInjector;\n }());\n\n /**\n
* @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
moduleUid = 0;\n /**\n * @description\n *\n * A helper function for creating an AngularJS module that
can bootstrap an Angular module\n * \"on-demand\" (possibly lazily) when a {@link downgradeComponent
downgraded component} needs to be\n * instantiated.\n *\n * *Part of the
[upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that\n * support AOT compilation.*\n
*\n * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to\n * pay

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the cost up-front. For example, you can have an AngularJS application that uses Angular for
specific routes and only instantiate the Angular modules if/when the user visits one of these routes. The Angular
module will be bootstrapped once (when requested for the first time) and the same reference will be used from
that point onwards.

`downgradeModule()` requires either an `NgModuleFactory` or a function:

```
- `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using
  `platformBrowser`'s `{ @link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory()}.
```

```
- `Function`: If you pass a function, it is expected to return a promise resolving to an `NgModuleRef`. The function is
called with an array of extra `{ @link StaticProvider Providers}` that are expected to be available from the returned
`NgModuleRef`'s `Injector`.
```

`downgradeModule()` returns the name of the created AngularJS wrapper module. You can use it to declare a dependency in your main AngularJS module.

Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be available until the downgraded module has been bootstrapped, i.e. by instantiating a `downgradedModule`

Component.

You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application. Use one or the other.

Differences with `UpgradeModule`:

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the `platformBrowser`.
2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `agentoModule`.

Restricted change detection.

This will inevitably result in more change detection runs than necessary. On the other side, does not try to tie the two change detection systems tightly, restricting the explicit change detection run only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change).

Further discussion of the differences and their implications, see [Upgrade for Performance](guide/upgrade-performance).

In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated.

Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded `NgModuleFactory` or `NgModuleRef`.
- If you want some injectables to be shared among all downgraded modules, you can provide them as `StaticProvider`

`PlatformRef`'s, when creating the `PlatformRef` (e.g. via `platformBrowser`) or

`platformBrowserDynamic`). When using `{ @link PlatformRef#bootstrapModule bootstrapModuleFactory

`bootstrapModuleFactory()`} or

Cast Injectable provided in ` NgModule`.

If this is not your intention, you can have a shared module (that will act as the

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function downgradeModule(moduleFactoryOrBootstrapFn) {
        var lazyModuleName = UPGRADE_MODULE_NAME + ".lazy" + ++moduleId;
        var lazyModuleRefKey = lazyModuleName;
        var lazyInjectorKey = INJECTOR_KEY + lazyModuleName;
        var bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
            moduleFactoryOrBootstrapFn : 
            function (extraProviders) {
                return platformBrowser.platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
            };
        var injector;
        // Create an ng1 module to bootstrap.
        module_(lazyModuleName, [])
            .constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */)
            .factory(INJECTOR_KEY, [lazyInjectorKey, identity])
            .factory(lazyInjectorKey, function () {
                if (!injector) {
                    throw new Error('Trying to get the Angular injector before bootstrapping the corresponding ' +
                        'Angular module:');
                }
                return injector;
            })
            .factory(LAZY_MODULE_REF,
                [lazyModuleRefKey, identity])
            .factory(lazyModuleRefKey, 
                function (injector) {
                    injector = result.injector = new NgAdapterInjector(injector, name, ElementRef, directive);
                })
            .config([injector, $provide])
            .constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(injector) + 1);
        return lazyModuleName;
    }
    function identity(x) {
        return x;
    }

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    // Constants
    var REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;
    // Classes
    var UpgradeHelper = /** @class */
        function UpgradeHelper(injector, name, elementRef, directive) {
            this.injector = injector;
            this.name = name;
            this.$injector = injector.get($INJECTOR);
            this.$compile = this.$injector.get($COMPILE);
            this.$controller = this.$injector.get($CONTROLLER);
            this.element = elementRef.nativeElement;
            this.$element = element(this.element);
            this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
        }
        UpgradeHelper.getDirective = function ($injector, name) {
            var directives = $injector.get(name + 'Directive');
            if (directives.length > 1) {
                throw new Error("Only support single directive definition for: " + name);
            }
            var directive = directives[0];
            // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was
            // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
            if (directive.compile && !directive.link)
                notSupported(name, 'compile');
            if (directive.replace)
                notSupported(name, 'replace');
            if (directive.terminal)
                notSupported(name, 'terminal');
            return directive;
        };
        UpgradeHelper.getTemplate = function ($injector, directive, fetchRemoteTemplate, $element) {
            if (fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false;
                var template = $templateCache_1.put(url_1, response);
            }
            else if (directive.compile && !directive.compileLink)
                notSupported(name, 'compile');
            if (directive.replace)
                notSupported(name, 'replace');
            if (directive.terminal)
                notSupported(name, 'terminal');
            if (template !== undefined) {
                var templateCache_1 = Sinjector.get(STEMPLATE_CACHE);
                var url_1 = getOrCall(directive.templateUrl, $element);
                var template = $templateCache_1.get(url_1);
                if (template !== undefined) {
                    var $httpBackend = $injector.get($HTTP_BACKEND);
                    $httpBackend('GET', url_1, null, function (status, response) {
                        if (status !== 200) {
                            throw new Error('Loading directive templates asynchronously is not supported');
                        }
                    });
                }
            }
            else {
                throw new Error('Directive template is not defined for: ' + name);
            }
            var $httpBackend = $injector.get($HTTP_BACKEND);
            $httpBackend('GET', url_1, null, function (status, response) {
                if (status !== 200) {
                    throw new Error('Loading directive templates asynchronously is not supported');
                }
            });
        }

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directive.name + \"\" is not a component, it is missing template.\"\")\n          }\n        };
    }
    UpgradeHelper.prototype.buildController = function (controllerType, $scope) {\n        // TODO: Document that we do not pre-assign bindings on the controller instance.\n        // Quoted properties below so that this code can be optimized with Closure Compiler.\n        var locals = { 'scope': $scope, 'element': this.$element };\n        var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);\n        this.$element.data(this.directiveKey(this.directive.name), controller);\n        return controller;\n    };
    UpgradeHelper.prototype.compileTemplate = function (template) {\n        if (template === undefined) {\n            template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);\n        }\n        return this.compileHtml(template);\n    };
    UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {\n        if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {\n            controllerInstance.$onDestroy();\n        }\n        $scope.$destroy();\n        // Clean the jQuery/jqLite data on the component+child elements.\n        // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element\n        // (this.element)\n        // https://github.com/jquery/jquery/blob/e743cbd28553236f955f71ea7248377915613fd9/src/manipulation.js#L223\n        // https://github.com/angular/angular.js/blob/26dcd5f830f902a3d26f4b2ab70d864d6886c82/src/jqLite.js#L306-L312\n        // 'cleanData' will invoke the AngularJS `$destroy` DOM event\n        // https://github.com/angular/angular.js/blob/26dcd5f830f902a3d26f4b2ab70d864d6886c82/src/Angular.js#L1911-L1924\n        element.cleanData($(this.element));\n        UpgradeHelper.prototype.prepareTransclusion = function () {\n            var _this = this;\n            var transclude = this.directive.transclude;\n            var contentChildNodes = this.extractChildNodes();\n            var attachChildrenFn = function (scope, cloneAttachFn) {\n                // Since AngularJS v1.5.8, `cloneAttachFn` will\n                // try to destroy the transclusion scope if\n                // it is empty. Since the transcluded content comes from\n                // Angular, not AngularJS,\n                // there will be no transclusion scope here.\n                // For now there is no DOM event\n                // `$destroy`\n                // set to this.$injector\n                return cloneAttachFn($template, scope);\n            }\n            var $template = contentChildNodes;\n            if (transclude) {\n                var slots_1 = Object.create(null);\n                if (typeof transclude === 'object') {\n                    $template = [];\n                    var slotMap_1 = Object.create(null);\n                    var filledSlots_1 = Object.create(null);\n                    Object.keys(transclude).forEach(function (slotName) {\n                        var selector = transclude[slotName];\n                        var optional = selector.charAt(0) === '?';\n                        selector = optional ? selector.substring(1) : selector;\n                        slotMap_1[directiveNormalize(selector.toLowerCase())] = slotName;\n                        slots_1[slotName] = null; // 'null':\n                        filledSlots_1[slotName] = optional; // Consider optional slots as filled.\n                    });\n                    contentChildNodes.forEach(function (node) {\n                        // Add the matching elements into their slot.\n                        var slotName = slotMap_1[selector] || slotName;\n                        if (slotName) {\n                            slots_1[slotName] = true;\n                            slots_1[slotName] = slots_1[slotName] || [];\n                            slots_1[slotName].push(node);\n                        }\n                    });\n                    // Check for required slots that were not filled.\n                    Object.keys(slots_1).forEach(function (slotName) {\n                        if (!filledSlots_1[slotName]) {\n                            throw new Error("Required transclusion slot \"\" + slotName + \"\" on directive: \"\" + this.name);\n                        }\n                    });\n                    Object.keys(slots_1).forEach(function (slotName) {\n                        var returns = slots_1[slotName];\n                        Object.keys(slots_1).filter(function (slotName) {\n                            return returns[slotName];\n                        })\n                        function (scope, cloneAttach) {\n                            return cloneAttach(returns, scope);\n                        }\n                    });\n                    return cloneAttach;\n                }\n            }\n        }\n        // Attach `$$$slots` to default slot transclude fn.\n        attachChildrenFn.$$slots = slots_1;\n        // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular\n        // removes all text content after the first interpolation and updates it later, after\n        // evaluating the expressions. This would result in AngularJS failing to recognize text\n        // nodes that start with an
upgrade apps that support AOT compilation.

* This helper class should be used as a base class for creating Angular directives
  * that wrap AngularJS components that need to be upgraded.

@usageNotes

### Examples

* Let's assume that you have an AngularJS component called
  `ng1Hero` that needs
  * to be made available in Angular templates.

* We must create a `Directive` that will make this
  AngularJS component
  ** available inside Angular templates.

* In this example you can see that we must
  derive from the `UpgradeComponent`
  * base class but also provide an `Directive` decorator. This is
  * because the AOT compiler requires that this information is statically available at
  * compile time.

Note that we must do the following:

* specify the directive's selector (`ng1-hero`)
  * specify all inputs and outputs that the AngularJS component expects
  * derive from

UpgradeComponent

* call the base class from the constructor, passing
  * the AngularJS name of the component (`ng1Hero`)
  * the `ElementRef` and `Injector` for the component wrapper

* `@publicApi` var UpgradeComponent = /** @class */ (function () {

  /**
   * Create a new `UpgradeComponent` instance. You should not normally need to do this.
  * Instead you should derive a new class from this one and call the super constructor.
  *
  * * The `name` parameter should be
  *   * the name of the AngularJS directive.
  * * The `elementRef` and `injector` parameters should be acquired from
  *   * Angular by dependency injection into the base class constructor.
  */

  function UpgradeComponent(name, elementRef, injector) {
      this.name = name;
      this.elementRef = elementRef;
      this.injector = injector;
      this.helper = new UpgradeHelper(injector, name, elementRef);
      this.$injector = this.helper.$injector;
      this.element = this.helper.element;
      this.$element = this.helper.$element;
      this.directive = this.helper.directive;
      this.bindings = this.initializeBindings(this.directive);
      // We ask for the AngularJS scope from the Angular injector, since
      // we will put the new component scope onto the new injector for each component
      var $parentScope = injector.get($SCOPE);
      // QUESTION 1: Should we create an isolated scope if the scope is only true?
      var $componentScope = $parentScope.$new(!!this.directive.scope);
      UpgradeComponent.prototype.ngOnInit = function () {
        var _this = this;
        // Collect contents, insert and compile template
        var attachChildNodes = this.helper.prepareTransclusion();
        var linkFn = this.helper.compileTemplate();
        // Instantiate controller
        var controllerType = this.directive.controller;
        var bindToController = this.directive.bindToController;
        if (controllerType) {
            this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
        } else if (bindToController) {
            throw new Error("Upgraded directive '" + this.directive.name + "' specifies 'bindToController' but no controller.");
        }
        // Linking
        var link = this.directive.link;
        var preLink = typeof link == 'object' && link.pre;
        var postLink = typeof link == 'object' ? link.post : link;
        var attrs = NOT_SUPPORTED;
        var transcludeFn = NOT_SUPPORTED;
        if (preLink) {
            this.pendingChanges = null;
            // Hook: $onChanges
            if (this.pendingChanges) {
                this.$forwardChanges(this.pendingChanges);
            }
            // Hook: $onInit
            if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
                this.controllerInstance.$onInit();
            }
            // Hook: $doCheck
            if (this.pendingChanges) {
                this.$forwardChanges(this.pendingChanges);
            }
            // Register this controller instance
            if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
                this.$doCheck = function () { return _this.controllerInstance.$doCheck(); }; // Hook: $doCheck
            }
            // If this controller has a DoCheck method, register it
            if (this.unregisterDoCheckWatcher) {
                this.$componentScope.$parent.$watch(callDoCheck);
            }
            callDoCheck();
        }
        // We ask for the AngularJS scope from the Angular injector, since
        // we will put the new component scope onto the new injector for each component
        var $parentScope = injector.get($SCOPE);
        // QUESTION 1: Should we create an isolated scope if the scope is only true?
        var $componentScope = $parentScope.$new(!!this.directive.scope);
        UpgradeComponent.prototype.ngOnInit = function () {
linkFn(this.$componentScope, null, { parentBoundTranscludeFn: attachChildNodes });
        if (postLink) {
            postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
        }
        Hook: $postLink
        if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
            this.controllerInstance.$postLink();
        }

        UpgradeComponent.prototype.ngOnChanges = function (changes) {
            if (!this.bindingDestination) {
                this.pendingChanges = changes;
            } else {
                this.forwardChanges(changes);
            }
        };
        UpgradeComponent.prototype.ngDoCheck = function () {
            var _this = this;
            var twoWayBoundProperties = this.bindings.twoWayBoundProperties;
            var twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
            var propertyToOutputMap = this.bindings.propertyToOutputMap;
            var newValue = _this.bindingDestination[propName];
            var oldValue = twoWayBoundLastValues[idx];
            if (!core.looseIdentical(newValue, oldValue)) {
                var outputName = propertyToOutputMap[propName];
                var eventEmitter = _this[outputName];
                eventEmitter.emit(newValue);
                twoWayBoundLastValues[idx] = newValue;
            }
        };
        UpgradeComponent.prototype.onDestory = function () {
            if (isFunction(this.unregisterDoCheckWatcher)) {
                this.unregisterDoCheckWatcher();
            }
            this.helper.onDestroy(this.$componentScope, this.controllerInstance);
        };
        UpgradeComponent.prototype.initializeBindings = function (directive) {
            var _this = this;
            var btcIsObject = typeof directive.bindToController === 'object';
            if (btcIsObject && Object.keys(directive.scope).length) {
                throw new Error("Binding definitions on scope and controller at the same time is not supported.");
            }
            var context = btcIsObject ? directive.bindToController : directive.scope;
            var bindings = new Bindings();
            if (typeof context == 'object') {
                Object.keys(context).forEach(function (propName) {
                    var definition = context[propName];
                    var bindingType = definition.charAt(0);
                    switch (bindingType) {
                        case '@':
                        case '<':
                            // We don't need to do anything special. They will be defined as inputs on the upgraded
                            // component facade and the change propagation will be handled by `ngOnChanges()`.
                            break;
                        case '=':
                            bindings.twoWayBoundProperties.push(propName);
                            bindings.twoWayBoundLastValues.push(INITIAL_VALUE$1);
                            bindings.propertyToOutputMap[propName] = propName + 'Change';
                            break;
                        case '&':
                            bindings.expressionBoundProperties.push(propName);
                            bindings.propertyToOutputMap[propName] = propName;
                            break;
                        default:
                            var json = JSON.stringify(context);
                            throw new Error("Unexpected mapping '" + bindingType + '" in '" + json + '" in '" + _this.name + "' directive.");
                    }
                });
            }
            return bindings;
        };
        UpgradeComponent.prototype.initializeOutputs = function () {
            var _this = this;
            this.bindings.twoWayBoundProperties.push(propName);
            bindings.twoWayBoundLastValues.push(INITIAL_VALUES$1);
            bindings.propertyToOutputMap[propName] = propName + 'Change';
            case '&':
                bindings.expressionBoundProperties.push(propName);
                break;
            var json = JSON.stringify(context);
            throw new Error("Unexpected mapping '" + bindingType + '" in '" + json + '" in '" + _this.name + '" directive.");
        };
        UpgradeComponent.prototype.bindOutputs = function () {
            var _this = this;
            this.bindings.expressionBoundProperties.forEach(function (propName) {
                var outputName = _this.bindings.propertyToOutputMap[propName];
                _this[outputName] = function (value) { return _this[outputName].emit(value); }
            });
        };
        UpgradeComponent.prototype.forwardChanges = function (changes) {
            var _this = this;
            UpgradeComponent.prototype.forwardChanges = function (changes) {
                var emitter = _this[outputName];
                UpgradeComponent.prototype.bindOutputs = function () {
                    var _this = this;
                    Bind `&` bindings to the corresponding outputs
                    this.bindings.expressionBoundProperties.forEach(function (propName) {
                        var outputName = _this.bindings.propertyToOutputMap[propName];
                        UpgradeComponent.prototype.bindOutputs = function () {
                            var _this = this;
                            this[outputName] = _this[outputName].emit(value);
                        }
                    });
                }
                _this[outputName].emit(changes[propName].currentValue);
                if (isFunction(this.bindingDestination.SonChanges)) {
                    var this.bindingDestination.SonChanges(changes);
                    return UpgradeComponent;
                }
            }
        };
        UpgradeComponent.prototype.onDestroy = function () {
            if (isFunction(this.unregisterDoCheckWatcher)) {
                this.unregisterDoCheckWatcher();
            }
            this.helper.onDestroy(this.$componentScope, this.controllerInstance);
        };
        UpgradeComponent.prototype.onDestory = function () {
            if (isFunction(this.unregisterDoCheckWatcher)) {
                this.unregisterDoCheckWatcher();
            }
            this.helper.onDestroy(this.$componentScope, this.controllerInstance);
        };
        UpgradeComponent.prototype.initializeBindings = function (directive) {
            var _this = this;
            var btcIsObject = typeof directive.bindToController === 'object';
            if (btcIsObject && Object.keys(directive.scope).length) {
                throw new Error("Binding definitions on scope and controller at the same time is not supported.");
            }
            var context = btcIsObject ? directive.bindToController : directive.scope;
            var bindings = new Bindings();
            if (typeof context == 'object') {
                Object.keys(context).forEach(function (propName) {
                    var definition = context[propName];
                    var bindingType = definition.charAt(0);
                    switch (bindingType) {
                        case '@':
                        case '<':
                            // We don't need to do anything special. They will be defined as inputs on the
                            // upgraded component facade and the change propagation will be handled by
                            // `ngOnChanges()`.
                            break;
                        case '=':
                            bindings.twoWayBoundProperties.push(propName);
                            bindings.twoWayBoundLastValues.push(INITIAL_VALUE$1);
                            bindings.propertyToOutputMap[propName] = propName + 'Change';
                            break;
                        case '&':
                            bindings.expressionBoundProperties.push(propName);
                            bindings.propertyToOutputMap[propName] = propName;
                            break;
                        default:
                            var json = JSON.stringify(context);
                            throw new Error("Unexpected mapping '" + bindingType + '" in '" + json + '" in '" + _this.name + "' directive.");
                    }
                });
            }
            return bindings;
        };
        UpgradeComponent.prototype.initializeOutputs = function () {
            var _this = this;
            this.bindings.twoWayBoundProperties.push(propName);
            bindings.twoWayBoundLastValues.push(INITIAL_VALUES$1);
            bindings.propertyToOutputMap[propName] = propName + 'Change';
            break;
            case '&':
                bindings.expressionBoundProperties.push(propName);
                break;
            var json = JSON.stringify(context);
            throw new Error("Unexpected mapping '" + bindingType + '" in '" + json + '" in '" + _this.name + '" directive.");
        };
        UpgradeComponent.prototype.bindOutputs = function () {
            var _this = this;
            this.bindings.expressionBoundProperties.forEach(function (propName) {
                var outputName = _this.bindings.propertyToOutputMap[propName];
                _this[outputName] = function (value) { return _this[outputName].emit(value); }
            });
        };
        UpgradeComponent.prototype.forwardChanges = function (changes) {
            var _this = this;
            UpgradeComponent.prototype.forwardChanges = function (changes) {
                var _this = this;
                UpgradeComponent.prototype.bindOutputs = function () {
                    var _this = this;
                    Bind `&` bindings to the corresponding outputs
                    this.bindings.expressionBoundProperties.forEach(function (propName) {
                        var outputName = _this.bindings.propertyToOutputMap[propName];
                        UpgradeComponent.prototype.bindOutputs = function () {
                            var _this = this;
                            this[outputName] = _this[outputName].emit(value);
                        }
                    });
                }
                _this[outputName].emit(changes[propName].currentValue);
                if (isFunction(this.bindingDestination.SonChanges)) {
                    var this.bindingDestination.SonChanges(changes);
                    return UpgradeComponent;
                }
            }
        };
        return UpgradeComponent;
    }());

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/**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
     */

/**
     * @description
     *
     * An `NgModule`, which you import to provide AngularJS core services, to be used together inside a hybrid upgrade application, which supports AOT compilation. Specifically, the classes and functions in the `upgrade/static` module allow the following:

1. Creation of an angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.
2. Creation of an Angular directive that wraps and exposes an Angular component so that it can be used in an AngularJS template. See `downgradeComponent`.
3. Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See `UpgradeModule#upgrading-an-angular-1-service` below.
4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See `downgradeInjectable`.

When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. There are two independent frameworks running in a single application, each framework treats its own DOM elements and ignores others.

AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated.

Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

An AngularJS component can be upgraded to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.

An Angular component can be downgraded to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.

Whenever an upgraded/downgraded component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.

AngularJS always owns the root component of the application.

The `UpgradeModule` class contains both of the frameworks coexisting in a single application.

When defining the `UpgradeModule` directive, the `UpgradeModule` is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. Therefore it no longer needs calls to `$apply()`.

AngularJS services are imported from the core services (https://docs.angularjs.org/api/ng/service) to the root injector, and has an instance method used to bootstrap the hybrid upgrade application. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

It also contains properties to access the root injector.

The `UpgradeModule` is bootstrapped and has an instance method used to bootstrap the hybrid upgrade application. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

The `UpgradeModule` is bootstrapped and has an instance method used to bootstrap the hybrid upgrade application. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

Importing this `NgModule` will add providers for the core AngularJS services (https://docs.angularjs.org/api/ng/service) to the root injector, and has an instance method used to bootstrap the hybrid upgrade application. The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

It also contains properties to access the root injector.
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```javascript
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in NgZone will
  // cause a '$digest already in progress' error if it's in the
  next VM turn - $interval calls
  // $rootScope.$apply, and running the callback
  // Run callback
  return intervalDelegate.apply(void 0, __spread([function () {
    arguments[_i] = arguments[_i];
  }
  return _this.ngZone.runOutsideAngular(function () {
  arguments[_i] = arguments[_i];
  for (var _i = 4; _i < arguments.length; _i++) {
    pass[_i - 4] =
    var wrappedInterval = function (fn, delay, count, invokeApply) {
      var pass = [];
      for (var _i = 4; _i < arguments.length; _i++) {
        pass[_i - 4] =
        arguments[_i];
        return this.ngZone.runOutsideAngular(function () {
          var args = [];
          for (var _i = 0; _i < arguments.length; _i++) {
            args[_i] = arguments[_i];
          }
          // Run callback
          in the next VM turn - $interval calls
          // $rootScope.$apply, and running the callback
          in NgZone will
          // cause a '$digest already in progress' error if it's in the
```
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static.umd.min.js.map
No license file was found, but licenses were detected in source scan.
{"version":3,"file":"static__testing.js","sources":["../../../../../../../packages/upgrade/src/common/src/angular1.ts","../..
/../../../../../packages/upgrade/src/common/src/constants.ts","../../../../../../../packages/upgrade/static/testing/src/create_
angular_testing_module.ts","../../../../../../../packages/upgrade/static/testing/src/create_angularjs_testing_module.ts",".
./../../../../../../packages/upgrade/static/testing/public_api.ts","../../../../../../../packages/upgrade/static/testing/index.ts","
../../../../../../../packages/upgrade/static/testing/testing.ts"],"sourcesContent":["/**\n * @license\n * Copyright Google
Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n */\n\nexport type Ng1Token = string;\n\nexport type
Ng1Expression = string | Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions
of `@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not
compatible with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function
extends{$inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token |
Function)[] | IAnnotatedFunction;\n\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\n\nexport
interface IModule {\n name: string;\n requires: (string|IInjectable)[];\n config(fn: IInjectable): IModule;\n
directive(selector: string, factory: IInjectable): IModule;\n component(selector: string, component: IComponent):
IModule;\n controller(name: string, type: IInjectable): IModule;\n factory(key: Ng1Token, factoryFn: IInjectable):
IModule;\n value(key: Ng1Token, value: any): IModule;\n constant(token: Ng1Token, value: any): IModule;\n
run(a: IInjectable): IModule;\n}\nexport interface ICompileService {\n (element: Element|NodeList|Node[]|string,
transclude?: Function): ILinkFn;\n}\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?:
ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]:
ILinkFn};\n}\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n
transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\nexport interface
IRootScopeService {\n $new(isolate?: boolean): IScope;\n $id: string;\n $parent: IScope;\n $root: IScope;\n
$watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n $on(event: string, fn?: (event?: any,
...args: any[]) => void): Function;\n $destroy(): any;\n $apply(exp?: Ng1Expression): any;\n $digest(): any;\n
$evalAsync(exp: Ng1Expression, locals?: any): void;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void):
Function;\n $$childTail: IScope;\n $$childHead: IScope;\n $$nextSibling: IScope;\n [key: string]: any;\n}\nexport
interface IScope extends IRootScopeService {}\n\nexport interface IAngularBootstrapConfig { strictDi?: boolean;
}\nexport interface IDirective {\n compile?: IDirectiveCompileFn;\n controller?: IController;\n controllerAs?:
string;\n bindToController?: boolean|{[key: string]: string};\n link?: IDirectiveLinkFn|IDirectivePrePost;\n name?:
string;\n priority?: number;\n replace?: boolean;\n require?: DirectiveRequireProperty;\n restrict?: string;\n
scope?: boolean|{[key: string]: string};\n template?: string|Function;\n templateUrl?: string|Function;\n
templateNamespace?: string;\n terminal?: boolean;\n transclude?: DirectiveTranscludeProperty;\n}\nexport type
DirectiveRequireProperty = SingleOrListOrMap<string>;\nexport type DirectiveTranscludeProperty = boolean |
'element' | {[key: string]: string};\nexport interface IDirectiveCompileFn {\n (templateElement:
IAugmentedJQuery, templateAttributes: IAttributes,\n transclude: ITranscludeFunction):
IDirectivePrePost;\n}\nexport interface IDirectivePrePost {\n pre?: IDirectiveLinkFn;\n post?:
IDirectiveLinkFn;\n}\nexport interface IDirectiveLinkFn {\n (scope: IScope, instanceElement: IAugmentedJQuery,
instanceAttributes: IAttributes,\n controller: any, transclude: ITranscludeFunction): void;\n}\nexport interface
IComponent {\n bindings?: {[key: string]: string};\n controller?: string|IInjectable;\n controllerAs?: string;\n
require?: DirectiveRequireProperty;\n template?: string|Function;\n templateUrl?: string|Function;\n transclude?:
DirectiveTranscludeProperty;\n}\nexport interface IAttributes {\n $observe(attr: string, fn: (v: string) => void):
void;\n [key: string]: any;\n}\nexport interface ITranscludeFunction {\n // If the scope is provided, then the
cloneAttachFn must be as well.\n (scope: IScope, cloneAttachFn: ICloneAttachFunction): IAugmentedJQuery;\n //
If one argument is provided, then it's assumed to be the cloneAttachFn.\n (cloneAttachFn?: ICloneAttachFunction):
IAugmentedJQuery;\n}\nexport interface ICloneAttachFunction { (clonedElement: IAugmentedJQuery, scope:

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```typescript
IScope): any; };//export type IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;
  text?: (name: string, value?: any) => void;
  append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => IAugmentedJQuery;
  remove?: () => void;
  removeData?: () => void;
};
export interface IProvider { $get: IInjectable; }
export interface IProvideService {
  provider(token: Ng1Token, factory: T): IProvider;
  factory(token: Ng1Token, factory: Injectable): Injectable;
};
export interface IInjectable { (constructor: IController, locals?: any, next?: any, ident?: any): any;
  module: string;
};
export interface IHttpBackendService { (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
  exportsInterface ICachable { put<T>(key: string, value?: T): T;
    get(key: string): any;
  };
  inject: (key: string) => any;
};
export interface ICacheObject { put<T>(key: string, value?: T): T;
  get(key: string): any;
};
export interface ITemplateCacheService extends ICacheObject {}
export interface ITemplateRequestService { (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;
  totalPendingRequests: number;
};
export interface IController = string | IInjectable;
export interface IControllerService { (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  module: string;
};
export interface IInjectorService { get(key: string): any;
  has(key: string): boolean;
};
export interface IIntervalService { (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): boolean;
};
export interface ITestabilityService { findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
};
export interface INgModelController { $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: { [key: string]: Function };
  $asyncValidators: { [key: string]: Function };
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
};
export interface IAngularBootstrapConfig { $onInit: Function; }
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}
export function getAngularLib(): any {
  return getAngularJSGlobal();
}
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}
```
config?}) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix,
    dependencies?) => angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes => angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

export {$$TESTABILITY}

export const COMPILER_KEY = '$$angularCompiler';

export const DOWNGRADED_MODULE_COUNT_KEY = '$$$angularDowngradedModuleCount';

export const GROUP_PROJECTABLE_NODES_KEY = '$$$angularGroupProjectableNodes';

export const INJECTOR_KEY = '$$$angularInjector';

export const LAZY_MODULE_REF = '$$$angularLazyModuleRef';

export const NG_ZONE_KEY = '$$$angularNgZone';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;

export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$$UpgradeModule';

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that
 * can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, Type} from '@angular/core';

import * as angular from '../../../src/common/src/angular1';
import {INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';

let $injector: angular.IInjectorService|null = null;
let injector: Injector;

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers:
    [{provide: INJECTOR, useFactory: $injectorFactory}]})
export class AngularTestingModule {
  constructor(i:
    Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.
 *
 * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular
 * and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * This makes it simpler and faster to unit test services.
 *
 * Use the returned class as an "import" when
 * configuring the `TestBed`.
 *
 * In the following code snippet, we are configuring the TestBed with two
 * imports.

 * The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the
 * AngularJS part of our hybrid application.

 * <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-setup"></code-example>
 *
 * Once this is done we can get hold of services via the Angular Injectors as
 * normal.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated
 * as
 * needed by the AngularJS `Injector`.

 * In the following code snippet, 'HeroesService' is an Angular service
 * that depends upon an AngularJS service, `titleCase`. The `titleCase` service is
 * instantiated
 * as
 * needed by the AngularJS `Injector`.

 * In the following code snippet, 'HeroesService' is an Angular service
 * that depends upon an AngularJS service, `titleCase`. The `titleCase` service is
 * instantiated
 * as
 * needed by the AngularJS `Injector`.

 * The helping function requires the test writer to call `$RootScope.Sapply`, as necessary, to trigger
 * AngularJS handlers of async events from Angular.

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 * AngularJS handlers of async events from Angular.

 * The helper sets up global variables to hold the shared Angular and AngularJS injectors.

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 * Only call this helper once per

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spec.

* Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.

* In the following code snippet, we are configuring the `Sinjector` with two modules:

* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and

* The Angular part `Ng2AppModule`, which is the Angular part

* This function returns an AngularJS module that is configured to wire up the AngularJS and Angular

* injectors without the need to actually bootstrap a hybrid application.

* This makes it simpler and faster to unit test services.

* Use the returned AngularJS module in a call to

* `[angular.mocks.module]`(https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to

* include this module in the unit test injector.

* In the following code snippet, we are configuring the `Sinjector` with two modules:

* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and

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* This makes it simpler and faster to unit test services.

* Use the returned AngularJS module in a call to

* `[angular.mocks.module]`(https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to

* include this module in the unit test injector.

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* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and

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* include this module in the unit test injector.

* In the following code snippet, we are configuring the `Sinjector` with two modules:

* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and

* The Angular part `Ng2AppModule`, which is the Angular part

* This function returns an AngularJS module that is configured to wire up the AngularJS and Angular

* injectors without the need to actually bootstrap a hybrid application.

* This makes it simpler and faster to unit test services.

* Use the returned AngularJS module in a call to
LICENSE file at https://angular.io/license
*/

export {createAngularTestingModule} from './src/create_angular_testing_module';
export {createAngularJSTestingModule} from './src/create_angularjs_testing_module';

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

export * from './public_api';

export * from './index';

export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_a} from '../../src/common/src/util';
export {INVJECTOR_KEY as ɵangular_packages_upgrade_static_testing_testing_d,UPGRADE_APP_TYPE_KEY as ɵangular_packages_upgrade_static_testing_testing_b} from '../../src/common/src/constants';
no license file was found, but licenses were detected in source scan.

```javascript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 */

/**
 * @module
 * @description
 * Entry point for all public APIs of the
 * common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');
```

---

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See the Apache License 2.0 License for specific language governing permissions and limitations under the License.
instanceAttributes: IAttributes,
  controller: any, transclude: ITranscludeFunction: void;

export interface IComponent {
  bindings?: {[key: string]: string};
  controller?: string|IInjectable;
  controllerAs?: string;
  require?: DirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: DirectiveTranscludeProperty;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void):
    void;
  [key: string]: any;
}

export interface ITranscludeFunction {
  // If the scope is provided, then the
closeAttachFn must be as well.
  (scope: IScope, cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  // If an argument is provided, then it's assumed to be the cloneAttachFn.
  (cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  |
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void):
    void;
  [key: string]: any;
}

export interface ITranscludeFunction {
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closeAttachFn must be as well.
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closeAttachFn must be as well.
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  // If an argument is provided, then it's assumed to be the cloneAttachFn.
  (cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  |
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void):
    void;
  [key: string]: any;
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  (scope: IScope, cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  // If an argument is provided, then it's assumed to be the cloneAttachFn.
  (cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  |
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void):
    void;
  [key: string]: any;
}

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  (scope: IScope, cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  // If an argument is provided, then it's assumed to be the cloneAttachFn.
  (cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  |
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void):
    void;
  [key: string]: any;
}

export interface ITranscludeFunction {
  // If the scope is provided, then the
closeAttachFn must be as well.
  (scope: IScope, cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  // If an argument is provided, then it's assumed to be the cloneAttachFn.
  (cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  |
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void):
    void;
  [key: string]: any;
}

export interface ITranscludeFunction {
  // If the scope is provided, then the
closeAttachFn must be as well.
  (scope: IScope, cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  // If an argument is provided, then it's assumed to be the cloneAttachFn.
  (cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  |
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void):
    void;
  [key: string]: any;
}

export interface ITranscludeFunction {
  // If the scope is provided, then the
closeAttachFn must be as well.
  (scope: IScope, cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  // If an argument is provided, then it's assumed to be the cloneAttachFn.
  (cloneAttachFn: IC1oneAttachFunction): IAugmentedJQuery;
  |
}
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### setAngularLib

```typescript
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}
```

### getAngularLib

```typescript
export function getAngularLib(): any {
  return getAngularJSGlobal();
}
```

### setAngularJSGlobal

```typescript
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}
```

### getAngularJSGlobal

```typescript
export function getAngularJSGlobal(): any {
  return angular;
}
```

### bootstrap

```typescript
export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);
```

### module

```typescript
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);
```

### element

```typescript
element.cleanData = nodes => angular.element.cleanData(nodes);
```

### injector

```typescript
export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);
```

### resumeBootstrap

```typescript
export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();
```

### getTestability

```typescript
export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);
```

### $COMPILE

```typescript
export const $COMPILE = '$compile';
```

### $CONTROLLER

```typescript
export const $CONTROLLER = '$controller';
```

### $DELEGATE

```typescript
export const $DELEGATE = '$delegate';
```

### $EXCEPTION_HANDLER

```typescript
export const $EXCEPTION_HANDLER = '$exceptionHandler';
```

### $HTTP_BACKEND

```typescript
export const $HTTP_BACKEND = '$httpBackend';
```

### $INJECTOR

```typescript
export const $INJECTOR = '$injector';
```

### $INTERVAL

```typescript
export const $INTERVAL = '$interval';
```

### $PARSE

```typescript
export const $PARSE = '$parse';
```

### $PROVIDE

```typescript
export const $PROVIDE = '$provide';
```

### $ROOT_SCOPE

```typescript
export const $ROOT_SCOPE = '$rootScope';
```

### $SCOPE

```typescript
export const $SCOPE = '$scope';
```

### $TEMPLATE_CACHE

```typescript
export const $TEMPLATE_CACHE = '$templateCache';
```

### $TEMPLATE_REQUEST

```typescript
export const $TEMPLATE_REQUEST = '$templateRequest';
```

### $$TESTABILITY

```typescript
export const $$TESTABILITY = '$$testability';
```

### COMPILER_KEY

```typescript
export const COMPILER_KEY = '$$$angularCompiler';
```

### DOWNGRADED_MODULE_COUNT_KEY

```typescript
export const DOWNGRADED_MODULE_COUNT_KEY = '$$$angularDowngradedModuleCount';
```

### GROUP_PROJECTABLE_NODES_KEY

```typescript
export const GROUP_PROJECTABLE_NODES_KEY = '$$$angularGroupProjectableNodes';
```

### INJECTOR_KEY

```typescript
export const INJECTOR_KEY = '$$$angularInjector';
```

### LAZY_MODULE_REF

```typescript
export const LAZY_MODULE_REF = '$$$angularLazyModuleRef';
```

### NG_ZONE_KEY

```typescript
export const NG_ZONE_KEY = '$$$angularNgZone';
```

### REQUIRE_INJECTOR

```typescript
export const REQUIRE_INJECTOR = '?!^^' + INJECTOR_KEY;
```

### REQUIRE_NG_MODEL

```typescript
export const REQUIRE_NG_MODEL = '?!^\$\^\$angularUpgradeAppType';
```

### REQUIRE_UPGRADE_APP_TYPE_KEY

```typescript
export const REQUIRE_UPGRADE_APP_TYPE_KEY = '?!^\$\^\$UpgradeModule';
```

### UPGRADE_APP_TYPE_KEY

```typescript
export const UPGRADE_APP_TYPE_KEY = '?!^\$\^\$UpgradeAppType';
```

### UPGRADE_MODULE_NAME

```typescript
export const UPGRADE_MODULE_NAME = '?!^\$\$UpgradeModule';
```

### $$UpgradeAppType

```typescript
export const $$UpgradeAppType = '?!^\$\$UpgradeAppType';
```

### $$$testability

```typescript
export const $$$testability = '$$testability';
```

### $$testability

```typescript
export const $$testability = '$$testability';
```

### Directives

```typescript
export interface IDirective
```

### PropertyBinding

```typescript
export class PropertyBinding {
  bracketAttr!: string;
  bracketParenAttr!: string;
  parenAttr!: string;
  onAttr!: string;
  bindAttr!: string;
  bindonAttr!: string;
  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }
  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `(${this.attr})`;
    this.bracketParenAttr = `\[(${this.attr})\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}
```

### Constants

```typescript
export const DIRECTIVE_PREFIX_REGEXP = /\^\?\x\[data\]i\:\^\?\x\/i\:unconst
```

---

(window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
} catch {
  // ignore in CJS
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 * (window.hasOwnProperty('angular')) {
 *   angular = (<any>window).angular;
 * } catch {
 *   // ignore in CJS
 * }
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;

```typescript
element.cleanData = nodes => angular.element.cleanData(nodes);
```

```typescript
export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);
```

```typescript
export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();
```

```typescript
export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);
```

```typescript
export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';
```

```typescript
export const $$TESTABILITY = '$$testability';
```

```typescript
export const COMPILER_KEY = '$$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$$angularInjector';
export const LAZY_MODULE_REF = '$$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$$angularNgZone';
export const REQUIRE_INJECTOR = '?!^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?!^\$\^\$UpgradeAppType';
export const REQUIRE_UPGRADE_APP_TYPE_KEY = '?!^\$\^\$UpgradeModule';
export const UPGRADE_APP_TYPE_KEY = '?!^\$\^\$UpgradeAppType';
export const UPGRADE_MODULE_NAME = '?!^\$\$UpgradeModule';
```

```typescript
export const $$testability = '$$testability';
```

```typescript
export const $$testability = '$$testability';
```

```typescript
export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';
```

```typescript
export const $$TESTABILITY = '$$testability';
```

```typescript
export const COMPILER_KEY = '$$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$$angularInjector';
export const LAZY_MODULE_REF = '$$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$$angularNgZone';
export const REQUIRE_INJECTOR = '?!^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?!^\$\^\$UpgradeAppType';
export const REQUIRE_UPGRADE_APP_TYPE_KEY = '?!^\$\^\$UpgradeModule';
```
```typescript
export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e,
      e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('
')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
    $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
    UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export function validateInjectionKey($injector: IInjectorService,
    $injected: string, injectionKey: string, attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradedModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradedModule) {
        throw new Error(
          `Error while ${attemptedAction}: 'downgradedModule' unexpectedly specified.\n` +
          'You should not specify a value for \'downgradedModule\', unless you are downgrading ' +
          'more than one Angular module (via \'downgradeModule()\').');
      }
      break;
    case UpgradeAppType.Lite:
      if (!downgradedModule &&
          (downgradedModuleCount >= 2)) {
        throw new Error(
          `Error while ${attemptedAction}: 'downgradedModule' not specified.\n` +
          'This application contains more than one downgraded Angular module, thus you need to ' +
          'always specify \'downgradedModule\' when downgrading components and ' +
          'injectables.\');
      }
      if (!$injector.has(injectionKey)) {
        throw new Error(
          `Error while ${attemptedAction}: Unable to find the specified downgraded module.\n` +
          'Did you forget to downgrade an Angular module or include it in the AngularJS' +
          ' \'application\'?\');
      }
      break;
    default:
      throw new Error(
          `Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.\n` +
          'Did you forget to downgrade an Angular module or include it in the AngularJS' +
          ' \'application\'?\');
  }
}

export class Deferred<R> {
  promise: Promise<R>;
  resolve!: (value?: R | PromiseLike<R>) => void;
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  None,
  Dynamic,
  Static,
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 * ControlValueAccessor interface needed for AngularJS ng-model\n * compatibility.\n */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS NgModelController (if it exists) to the component\n * (if it implements the needed subset of the ControlValueAccessor\n * interface).
 */
export function hookupNgModel(ngModel: INgModelController,
    component: any) {
  if (ngModel && supportsNgModel(component)) {
    component.writeValue = ngModel.$writeValue;
    component.registerOnChange = ngModel.$onChange;
  }
}

// Test two values for strict equality, accounting for the fact that NaN !== NaN.\n
// testTwoValuesForStrictEquality(val1: any, val2: any):
```
boolean {\n    return val1 === val2 || (val1 !== val1 &\& val2 !== val2);\n  } as *n
*/n * Copyright Google Inc. All Rights Reserved.*n * Use of this source code is governed by an MIT-style license that can be
found in the LICENSE file at https://angular.io/license
*/n import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  private componentRef !: ComponentRef<any>;
  private component: any;
  private changeDetector !: ChangeDetectorRef;
  private viewChangeDetector !: ChangeDetectorRef;

  constructor(
      private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
      private ngModel: INgModelController, private parentInjector: Injector,
      private $injector: IInjectorService, private $compile: ICompileService,
      private $parse: IParseService, private componentFactory: ComponentFactory<any>,
      private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
        this.$compile(nodes));

    this.element.empty !();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
          (clone: Node[]) => {
            compiledProjectableNodes.push(clone);
            this.element.append !(clone);
          });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const
      providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector =
        Injector.create({providers: providers, parent: this.parentInjector, name:
        'DowngradeComponentAdapter'});

    this.componentRef =
        this.componentFactory.create(childInjector,
            projectableNodes, this.element[0]);
    this.viewChangeDetector =
        this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector =
        this.componentRef.changeDetectorRef;
    this.changeDetector =
        this.componentRef.changeDetectorRef;
    this.componentRef =
        this.componentRef.instance;
    // testability hook is
    // commonly added during component bootstrap
    // packages/core/src/application_ref.bootstrap()
    // in
downgraded application, component creation will take place here as well as adding the
    // testability hook.
    // testability hook.
    // const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)
          .registerApplication(this.componentRef.location.nativeElement, testability);
    }

    hookupNgModel(this.ngModel, this.component);
  }

  setupInputs(manuallyAttachView: boolean,
      propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName,
        inputs[i].templateName);
      let expr: string|null = null;

      if (attrs.hasOwnProperty(input.attr)) {
        const
          observeFn = (prop => {
            let prevValue = INITIAL_VALUE;
            return (currValue: any) => {
              // Initially, both `$observe()` and `$watch()` will call this function.
              if (!strictEquals(prevValue, currValue)) {
                this.updateInput(prop, prevValue, currValue);
              }
            };
          })(input.prop);
        attrs.$observe(input.attr, observeFn);
          return (currValue: any) => {
          // Initially, both `$observe()` and `$watch()` will call this function.
          if (!strictEquals(prevValue, currValue)) {
            this.updateInput(prop, prevValue, currValue);
          }
          this.updateInput(prop, prevValue, currValue);
          return (currValue: any) => {
          // Initially, both `$observe()` and `$watch()` will call this function.
          if (!strictEquals(prevValue, currValue)) {
            this.updateInput(prop, prevValue, currValue);
          }
      }});
  }
attrs[input.bindonAttr];
  } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
    expr = attrs[input.bracketParenAttr];
  } else if (expr != null) {
    const watchFn =
        this.componentScope.$watch((prop) => (currValue: any, prevValue: any) =>
            this.updateInput(prop, prevValue, currValue))(input.prop);
    this.componentScope.$watch(expr, watchFn);
  }

  // Invoke `ngOnChanges()` and Change Detection when necessary
  const detectChanges = () => this.changeDetector.detectChanges();
  const prototype =
      <OnChanges>this.componentFactory.componentType.prototype;
  this.implementsOnChanges = !!prototype &&
      this.componentScope.$watch(() => this.inputChangeCount,
          this.wrapCallback(() => {
            // Invoke `ngOnChanges()`
            if (this.implementsOnChanges) {
              this.component$emitInputs(new SimpleChange(prevValue, currValue, prevValue === currValue));
            }
          }));

  // If not opted out of propagating digests, invoke change detection
  if (!propagateDigest) {
    detectChanges();
  }

  // If necessary, attach the view so that it will be dirty-checked.
  if (manuallyAttachView || !propagateDigest) {
    let unwatch: Function|null = this.componentScope.$watch(() => {
      unwatch !();
      unwatch = null;
      const appRef =
          this.parentInjector.get<ApplicationRef>(ApplicationRef);
      appRef.attachView(this.componentRef.hostView);
    });
  }

  /**
   * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
   */
  export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {...}
const findMatchingNgContentIndex = (element: any, ngContentSelectors: string[]): number|null => {
  const ngContentIndices = [];
  let wildcardNgContentIndex = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(element, selector)) {
        ngContentIndices.push(i);
      }
    }
  }
  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {
    ngContentIndices.push(wildcardNgContentIndex);
  }
  return ngContentIndices.length ? ngContentIndices[0] : null;
}

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches ||
      elProto.matchesSelector ||
      elProto.mozMatchesSelector ||
      elProto.oMatchesSelector ||
      elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

/**
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 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }
}

/**
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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, UpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering an AngularJS component to be used from AngularJS.
 *
 * *Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

downgrading Angular components to AngularJS components please
* visit the [Upgrade
guide](guide/upgrade#using-angular-components-from-angularjs-code).\n* @param info contains information
about the Component that is being downgraded:\n* `component: Type<any>`: The type of the Component that
will be downgraded\n* `downgradedModule?: string`: The name of the downgraded module (if any) that the
component\n* "belongs to", as returned by a call to `downgradeModule()`\n* It is the module, whose\n* corresponding Angular module will be bootstrapped, when the component needs to be instantiated.\n* `propagateDigest?: boolean`: Whether to perform \[@link ChangeDetectorRef#detectChanges\n* change detection\] on the component on every \n* \[
[$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).\]
If set to ‘false’, change detection will still be performed when any of the component's inputs changes.\n* (Default: true)\n* `return` a factory function that can be used to register the component in an \* AngularJS module\n* `publicApi`: anexport function\n* `downgradeComponent(info: {\n  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;\n  /\n  inputs?: string[];\n  \n  /\n  outputs?: string[];\n  /\n  selectors?: string[];\n}): any /* angular.IInjectable */ {\n  const directiveFactory:\n    IDirective = function(\n      $compile: ICompileService, $injector: IInjectorService, $parse: IParseService): IDirective {\n    // When using `downgradeModule()`, we need to handle certain things specially. For example:\n    // - We always need to check if the component view to the `ApplicationRef` for it to be\n    //   dirty-checked.\n    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n    // Angular zone.\n    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n    // force it back in).\n    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\n    const wrapCallback: <T>(cb: () => T) => typeof cb =\n        !isNgUpgradeLite ? cb => cb : cb => () =>\n        NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n    let ngZone;\n
    // When downgrading multiple\n    // modules, special handling is needed wrt injectors.\n    const hasMultipleDowngradedModules =\n        isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n    return {\n        restrict: 'E',\n        terminal: true,\n        require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n        link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {\n            // When using `downgradeModule()`, we need to handle certain things specially. For example:\n            // - We always need to check if the component view to the `ApplicationRef` for it to be\n            //   dirty-checked.\n            // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n            // Angular zone.\n            // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n            // inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n            // force it back in).\n            const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\n            const wrapCallback: <T>(cb: () => T) => typeof cb =\n                !isNgUpgradeLite ? cb => cb : cb => () =>\n                NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n            let ngZone;\n
            // Notes:\n            //
            // There are basically three cases:\n            // - `parentInjector` hasMultipleDowngradedModules =\n            //   `false`\n            //   - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must\n            //     be on the same tree as the `NgModule` that declares this downgraded component.\n            // - `finalParentInjector` is used for all other injection purposes.\n            //   (Note that Angular knows to only traverse the\n            // component-tree part of that injector, then when looking for an injectable and then switch to the module\n            // injector.\n            //   - There are basically three cases:\n            //     - If there is no parent component (thus no\n            //       `parentInjector`), we bootstrap the downgraded\n            //     - `NgModule` and use its injector as both\n            //   - `finalModuleInjector` and\n            //   - `finalParentInjector` and we are sure that it\n            //     `parentInjector` should be on the same tree as the `NgModule` as this downgraded component
(e.g. because there is only
// one downgraded module, we use that `parentInjector` as both
`finalModuleInjector` and\n// `finalParentInjector`\n// - If there is a parent component, but it may belong
to a different `NgModule`, then we\n// use the `parentInjector` as `finalParentInjector` and this downgraded
component's\n// declaring `NgModule`'s injector as `finalModuleInjector`\n// Note 1: If the
`NgModule` is already bootstrapped, we just get its injector (we don't\n// bootstrap again)\n// Note 2: It is possible that (while there are multiple downgraded modules) this\n// downgraded component and its parent component both belong to the same NgModule.\n// In that case, we could have used the
`parentInjector` as both\n// `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n// treating this case as if they belong to different `NgModule`'s. That doesn't\n// really affect anything, since `parentInjector` has `moduleInjector` as ancestor\n// and trying to resolve
`ComponentFactoryResolver` from either one will return\n// the same instance.\n\n// If there is a parent component, use its injector as parent injector.\n// If this is a \"top-level\" Angular component, use the module injector.\nconst finalParentInjector = parentInjector || moduleInjector \n// If this is a \"top-
level\" Angular component or the parent component may belong to a\n// different \`NgModule\`, use the module
injector for module-specific dependencies.\n\n// If there is a parent component that belongs to the same
\`NgModule`, use its injector.\nconst finalModuleInjector = moduleInjector || parentInjector \n\nconst doDowngrade = (injector: Injector, moduleInjector: Injector) => {\n  // Retrieve `ComponentFactoryResolver` from the
  // injector tied to the \`NgModule\` this\n  // component belongs to.\n  const componentFactoryResolver: ComponentFactoryResolver =
    moduleInjector.get(ComponentFactoryResolver);\n  const componentFactory: ComponentFactory<any> =
    componentFactoryResolver.resolveComponentFactory(info.component) !;\n
  if (!componentFactory) {
    throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
  }\n
  const injectorPromise = new ParentInjectorPromise(element);\n  const facade = new
  DowngradeComponentAdapter(
      element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
      componentFactory, wrapCallback);\n  const projectableNodes = facade.compileContents();\n  facade.createComponent(projectableNodes);\n  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n  facade.setupOutputs();\n  facade.registerCleanup();\n
  injectorPromise.resolve(facade.getInjector());\n
  if (ranAsync) {\n    // If this is run asyn, it is possible
    // that it is not run inside \a\n    // digest and initial input values will not be detected.\n    scope.$evalAsync(() => {});
  }\n
  return doDowngradeFn = (injector: Injector, mInjector: Injector) => {\n    if (!ngZone) {\n      ngZone = injector.get(NgZone);\n    }\n
    wrapCallback(() => doDowngrade(pInjector, mInjector)());\n  }\n
  // NOTE:\n  // Not using `ParentInjectorPromise.all()` (which is inherited from \`SyncPromise\`), because\n  // Closure Compiler (or
  // some related tool) complains:\n  // \`TypeError: \$src$downgrade_component_ParentInjectorPromise.all is not a
  // function\`\n  SyncPromise.all([finalParentInjector, finalModuleInjector])\n    .then(([pInjector, mInjector]) =>
      do downgradeFn(pInjector, mInjector));\n
  return directiveFactory;\n}\n
* ***\n* Synchronous promise-like object to wrap parent injectors.\n* to preserve the
  synchronous nature of AngularJS's \`Scompile\`.\n* When parentInjectorPromise extends SyncPromise<Injector>\n  {\n    private injectorKey: string = controllerKey(INJECTOR_KEY);\n    constructor(private element: IAugmentedJQuery) {\n      super();\n      // Store the promise on the element.\n      element.data ![this.injectorKey,\n        this];\n      this.resolve(injector: Injector): void {\n        // Store the real injector on the element.\n        this.injection.data ![this.injectorKey, injector];\n        // Release the element to prevent memory leaks.\n        this.element = null !;\n      }\n
      // Resolve the promise.\n      super.resolve(injector: Injector) {\n        // Permissions\n      }\n  }\n
  * ***\n  * Use of this source code is governed by an MIT-style license that can be\n  * found in the LICENSE file at https://angular.io/license

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to
allow an Angular service to be accessible from AngularJS.

Part of the open source used in MSX Platform Services 4.0.0

This helper function returns a factory function that allows access to the Angular service identified by the `token` parameter. First ensure that the service to be downgraded is provided in an NgModule that will be part of the upgrade application. For example, let's assume we have an AngularHeroesService component that we can get hold of through an upgrade via the name we gave when downgrading. Now we can register the 'downgrade Injectable' factory function for the service on an AngularJS module.

For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the Injectable, but _not_ OK to use it in an AngularJS component that may be used independently of Angular or not use it in a downgraded Angular component from a different module.

When using 'downgradeModule()', downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded injectables are not used anywhere _outside_ the part of the app where it is _not_ guaranteed that their module has been instantiated.

For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the Injectable, but _not_ OK to use it in an AngularJS component that may be used independently of Angular or not use it in a downgraded Angular component from a different module. In that case, it is only _OK_ to use the Injectable in a downgraded Angular component from the same module as the Injectable.

When using 'downgradeModule()', downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded Injectable is not used anywhere _outside_ the part of the app where it is _not_ guaranteed that their module has been instantiated.
string): IDirective {
    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
        throw new Error('Only support single directive definition for: ${name}');
    }
    const directive = directives[0];
    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was a
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');
    return directive;
}

static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false,
    $element?: IAugmentedJQuery): string|Promise<string> {
    if (directive.template !== undefined) {
        return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
        const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
        const url = getOrCall<string>(directive.templateUrl, $element);
        const template = $templateCache.get(url);
        if (template !== undefined) {
            return template;
        } else if (!fetchRemoteTemplate) {
            throw new Error('loading directive templates asynchronously is not supported');
        }
        return new Promise((resolve, reject) => {
            const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
            $httpBackend('GET', url, null, (status: number, response: string) => {
                if (status === 200) {
                    resolve($templateCache.put(url, response));
                } else {
                    reject(`GET component template from '${url}' returned '${status}: ${response}'`);
                }
            });
        });
    } else {
        throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
}

buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    // instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data !(controllerKey(this.directive.name !), controller);
    return controller;
}

compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
        template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }
    return this.compileHtml(template);
}

onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
        controllerInstance.$onDestroy();
    }
    $scope.$destroy();
    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
}

prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
        // Since AngularJS v1.5.8, `cloneAttachFn` will try
        // to destroy the transclusion scope if
        // `$template` is empty. Since the transcluded content comes from Angular,
        // not AngularJS, there will be no transclusion scope here.
        // Provide a dummy `scope.$destroy()` method
        // to prevent `cloneAttachFn` from throwing.
        scope = scope || {$destroy: () => undefined};
        return cloneAttachFn !($template, scope);
    };
    let $template = contentChildNodes;
    if (transclude) {
        const slots = Object.create(null);
        const filledSlots = Object.create(null);
        Object.keys(transclude).forEach(slotName => {
            let selector = transclude[slotName];
            if (typeof selector === 'object') {
                selector = selector.translate || null;
            }
            if (selector) {
                const slotMap = Object.create(null);
                const filledSlots = Object.create(null);
                // Parse the element selectors.
               Object.keys(selector).forEach(slotName => {
                    let selector = selector.selector || null;
                    if (selector) {
                        const slotMap = Object.create(null);
                        slotMap[directiveNormalize(node.nodeName.toLowerCase())] = slotName;
                    else {
                        Defined but not yet filled;
                        filledSlots[slotName] = optional;
                        // Consider optional slots as filled.
                    };
                    // Add the matching elements into their slot.
                    contentChildNodes.forEach((node, index) => {
                        let selector = selector.selector || null;
                        if (selector) {
                            const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())] || null;
                            if (slotName) {
                                // If there is a match and the slot is
                                // not yet filled, mark it as filled.
                                filledSlots[slotName] = slotName;
                            } else {  // Fill the empty slots.
                                filledSlots[slotName] = slotName;
                            }
                        } else {  // Fill the empty slots.
                            filledSlots[slotName] = slotName;
                        }
                    });
                });
            } else {
                Defined but not yet filled;
                filledSlots[slotName] = optional;
                // Consider optional slots as filled.
            }
        });
    } else {  // Fill the empty slots.
        filledSlots[slotName] = slotName;
    }
}

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```javascript
filledSlots[slotName] = true;
            slots[slotName] = slots[slotName] || [];
            slots[slotName].push(node);

        } else {
            $template.push(node);
          }
        });

        // Check for required slots that were not filled.
        Object.keys(filledSlots).forEach(slotName => {
          if (!filledSlots[slotName]) {
            throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
          }
        });

        // Attach `$$slots` to default slot transclude fn.
        attachChildrenFn.$$slots = slots;

        // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes.
        Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
          const nodes = slots[slotName];
          slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
            return cloneAttach !(nodes, scope);
          };
        });

        // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes.
        $template.forEach(node => {
          if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
            node.nodeValue = '\u200C';
          }
        });
    }

    return attachChildrenFn;
  }

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);

    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
      const requiredControllersMap = requiredControllers as {
        [key: string]: IControllerInstance
      };
      Object.keys(requiredControllersMap).forEach(key => {
        controllerInstance[key] = requiredControllersMap[key];
      });

      return requiredControllersMap;
    }

    return requiredControllers;
  }

  private extractChildNodes(): Node[] {
    const childNodes: Node[] = [];
    let childNode: Node|null;

    while (childNode = this.element.firstChild) {
      this.element.removeChild(childNode);
      childNodes.push(childNode);
    }

    return childNodes;
  }

  private getDirectiveRequire(): DirectiveRequireProperty {
    const require = this.directive.require || (this.directive.controller && this.directive.name) !;

    if (isMap(require)) {
      Object.keys(require).forEach(key => {
        const value = require[key];
        const match = value.match(REQUIRE_PREFIX_RE) !;
        const name = value.substring(match[0].length);

        if (!name) {
          require[key] = match[0] + key;
        }
      });
    }

    return require;
  }

  private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): SingleOrListOrMap<IControllerInstance>|null {
    if (!require) {
      return null;
    } else if (Array.isArray(require)) {
      return require.map(req => this.resolveRequire(req));
    } else if (typeof require === 'object') {
      const value: {
        [key: string]: IControllerInstance
      } = {};
      Object.keys(require).forEach(key => {
        value[key] = this.resolveRequire(require[key]) !;
      });
      return value;
    } else if (typeof require === 'string') {
      const match = require.match(REQUIRE_PREFIX_RE) !;
      const inheritType = match[1] || match[3];
      const name = require.substring(match[0].length);
      const isOptional = !!match[2];
      const searchParents = !!inheritType;
      const startOnParent = inheritType === "^^";
      const ctrlKey = ctrlKey(name); const elem = startOnParent ? this.$element.parent () : this.$element;
      const value = searchParents ? elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);
      if (!value && !isOptional) {
        throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
      } else {
        throw new Error('Unrecognized 'require' syntax on upgraded directive '${this.name}'.

    ```
```typescript
interface IDirective {
  element: Element;
  $element: any = null;
  componentScope: IScope;
  constructor(private helper: UpgradeHelper, scope: IScope, private template: string, private inputs: string[], private propOuts: string[], private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.Selement = helper.Selement;
    this.componentScope = scope.$new(!this.directive.scope);
    const controllerType = this.directive.controller;
    if (this.directive.bindToController && controllerType) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    }
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller (if not already done so)
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    }

    // Require other controllers
    const requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onInit
    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
      this.controllerInstance.$onInit();
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});
    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }

    // ngOnChanges
    const ng1Changes: any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
      this.destinationObj.$onChanges(ng1Changes);
    }

    // ngDoCheck
    if (isFunction(this.controllerInstance &
      & isFunction(this.controllerInstance.$doCheck))) {
      this.controllerInstance.$doCheck();
    }

    // OnDestroy
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
  }

  ngOnDestroy() {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
  }

  setComponentProperty(name: string, value: any) {
    this.destinationObj ![this.propertyMap[name]] = value;
  }
}
```

`./../common/src/downgrade_component';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from './../common/src/util';

import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS
 and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 * (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of AngularJS directive from Angular component.
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains what is happening at the lowest level.
 * There are two independent frameworks running in a single application, each framework treats
 the other as a black box.

 Each DOM element on the page is owned exactly by one framework. Whichever framework
 instantiated the element is the owner. Each framework only updates/interacts with its own
 DOM elements and ignores others.

 AngularJS directives always execute inside Angular framework codebase regardless of
 where they are instantiatted. 4. Angular components always execute inside Angular framework codebase regardless of
 where they are instantiated.

 An AngularJS component can be upgraded to an Angular component. This creates
 Angular directive, which bootsraps the AngularJS component directive in that location.

 An Angular component can be downgraded to an AngularJS component directive. This creates
 an AngularJS directive, which bootsraps the Angular component in that location.

 Whenever an adapter component is instantiated the host element is owned by the framework
 doing the instantiation. The other framework then instantiates and
 owns the view for that component. This implies that component bindings will always follow the semantics of
 the instantiation framework. The syntax is always that of Angular syntax.

 AngularJS is always

 `UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);

 adapter.bootstrap(document.body, ['myExample']).ready(function() {
 expect(document.body.textContent).toEqual(
 'ng2[ng1[Hello World!](transclude)](project)');
 });

 adapter.ngZone = new NgZone();
 adapter.ng1Module = new NgModuleRef<any>();
 adapter.ng2BootstrapDeferred = new Deferred<>();
 adapter.downgradedComponents = [];
Angular Component to be used from AngularJS.

* Use `downgradeNg2Component` to create an AngularJS Directive Definition Factory from an Angular Component. The adapter will bootstrap Angular component from within the AngularJS template.

* @usageNotes

### Mental Model

1. The component is instantiated by being listed in AngularJS template. This means that the host element is controlled by AngularJS, but the component’s view will be controlled by Angular. Even though the component is instantiated in AngularJS, it will be using Angular syntax. This has to be done, this way because we must follow Angular components do not declare how the attributes should be interpreted.

3. ‘ng-model’ is controlled by AngularJS and communicates with the downgraded Angular component by way of the ‘ControlValueAccessor’ interface from angular/forms. Only components that implement this interface are eligible.

### Supported Features

* - Bindings: - Attribute: `<comp name="World">` - Interpolation: `<comp greeting="Hello {{name}}!">` - Expression: `<comp [name]="username">` - Event: `<comp (close)="doSomething()">`

- Content projection: yes

### Example

* const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));

* const module = angular.module('myExample', []).module.directive('greet', adapter.downgradeNg2Component(Greeter));

* @Component({
  selector: 'greet',
  template: 'Hello! - <ng-content></ng-content>'
})

class Greeter {

  @Input() salutation: string;

  @Input() name: string;

}
((<any>this.ng1ComponentsToBeUpgraded).hasOwnProperty(name)) { return this.ng1ComponentsToBeUpgraded[name].type; } else { return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name)).type; }

**Usage Notes**

### Example

```typescript
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);

// configure the adapter with upgrade/downgrade components and services
upgradeAdapter.upgradeDowngradeNg2Component(MyComponent);

// use the adapter before any calls to
```

```typescript
/**
 * Registers the adapter's
 * AngularJS upgrade module for unit testing in AngularJS.
 * Use this instead of `angular.mock.module()` to load
 * the upgrade module into
 * the AngularJS testing injector.
 *
 * @usageNotes
 * ### Example
 *
 * ```
 * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
 * // configure the adapter with upgrade/downgrade components and services
 * upgradeAdapter.upgradeDowngradeNg2Component(MyComponent);
 * 
 * // use the adapter before any calls to inject()
 * ```
 */
```

```typescript
registerForNg1Tests(modules?: string[]): UpgradeAdapterRef {
    const windowNgMock = (window as any)['angular'].mock;
    if (!windowNgMock || !windowNgMock.module) {
      throw new Error('Failed to find \`angular.mock.module\'.');
    }

    this.declareNg1Module(modules);
    windowNgMock.module(this.ng1Module.name);
    const upgrade = new UpgradeAdapterRef();
    this.ng2BootstrapDeferred.promise.then((<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector) => { (any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);

    return upgrade;
}

/**
 * Bootstrap a hybrid AngularJS / Angular application.
 *
 * This `bootstrap` method is a direct replacement (takes
 * same arguments) for AngularJS `\`bootstrap\` |
 * method. Unlike AngularJS, this bootstrap is asynchronous.
 *
 * ```
 * const adapter = new UpgradeAdapter(MyNg2Module);
 * const module = angular.module('myExample', []);
 * module.directive('ng2', adapter.downgradeNg2Component(Ng2));
 * module.directive('ng1', function() {
 *   return {
 *      scope: { title: '=' },
 *      template: 'ng1[Hello {{title}}]!<span ng-transclude></span>'
 *   };
 * });
 * adapter.upgradeNg1Component('ng1').ready(() => {
 *   expect(document.body.innerHTML).toEqual("Hello World!");
 * });
 * ```
 */
```

```typescript
bootstrap(element: Element, modules?: any[], config?: IAngularBootstrapConfig): UpgradeAdapterRef {
    this.declareNg1Module(modules);

    const upgrade = new UpgradeAdapterRef();

    // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
    const windowAngular = (window as any /** TODO #???? */)['angular'];
    windowAngular.resumeBootstrap = undefined;

    this.ngZone.run(() => { (any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector) => { (any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);
    return upgrade;
}
```

```typescript
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```
UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)
.then(() => {
  // Note: There is a bug in TS 2.4 that prevents us from inlining this into @NgModule
  // TODO(tbosch): find or file a bug against TypeScript for this.
  const ngModule = {
    providers: [
      {provide: $INJECTOR, useFactory: () => ng1Injector},
      {provide: $COMPILE, useFactory: () => ng1Injector.get(SCOMPILE)},
      this.upgradedProviders
    ],
    imports: [resolveForwardRef(this.ng2AppModule)],
    entryComponents: this.downgradedComponents
  };  // At this point we have ng1 injector and we have prepared ng1 components to be upgraded, we now can bootstrap ng2.
  @NgModule({jit: true, ...ngModule})
  class DynamicNgUpgradeModule {
    constructor() {}
    ngDoBootstrap() {}
  }

  platformRef
    .bootstrapModule(
      DynamicNgUpgradeModule, [this.compilerOptions !, {ngZone: this.ngZone}]
    )
    .then((ref: NgModuleRef<any>) => {
      this.moduleRef = ref;
      this.ngZone.run(() => {
        if (rootScopePrototype) {
          rootScopePrototype.$apply = original$applyFn;  // restore original $apply
          while (delayApplyExps.length) {
            rootScope.$apply(delayApplyExps.shift());
          }
          rootScopePrototype = null;
        }
      });
    })
    .then(() => this.ng2BootstrapDeferred.resolve(ng1Injector), onError)
    .then(() => {
      let subscription =
        this.ngZone.onMicrotaskEmpty.subscribe({
          next: () => {
            if (rootScope.$$phase) {
              if (isDevMode()) {
                console.warn(
                  'A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.'
                );
              }
              return rootScope.$evalAsync(() => {});
            }
            return rootScope.$digest();
          }
        });
      rootScope.$on('$destroy', () => {
        subscription.unsubscribe();
      });
    })
    .catch((e) => this.ng2BootstrapDeferred.reject(e));
}

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's $compile.
 */
class ParentInjectorPromise {
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    element.data !(controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;

    // reset the element data to point to the real injector
    this.element.data !(controllerKey(INJECTOR_KEY), injector);

    // clean out the element to prevent memory leaks
    this.element = null !;

    // run all the queued callbacks
    this.callbacks.forEach(callback => callback(injector));
  }
}

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 *
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation][guide/aot-compiler].
 * @publicApi
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application.
   * @param callbackFn function that is notified on successful hybrid
   * @returns a `return` Promise that is resolved if the hybrid
   * AngularJS / Angular application
   * @publicApi
   */
  public ready(callbackFn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
    this._readyFn = callbackFn;
    this.ng2BootstrapDeferred.resolve();
  }

  /**
   * Dispose of running hybrid AngularJS / Angular application.
   * @param disposeFn function to dispose of the hybrid
   * AngularJS / Angular application
   * @publicApi
   */
  public dispose(disposeFn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
    this._readyFn = disposeFn;
    this.ng2BootstrapDeferred.reject();
  }
}

/**
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 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src
zip/bundles/upgrade.umd.js.map

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

["version":3,"file":"static.js","sources":
tatic/static.ts"],"sourcesContent:"/**
 * @license
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 */

export type Ng1Token = string;

export type Ng1Expression = string |
Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface within
  // `Sinject?: Function[]`, which is not compatible with `Sinject?: readonly Array<string>`
  // (used in latest versions).
  Sinject?: Function extends{Sinject?: string[]}?
Ng1Token[];
}

IAnnotatedFunction

export interface IInjectable = Ng1Token[] |
IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
}

export interface ICompileService {
  (element: Element|NodeList|Node[]|string,
   transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {
[key: string]: ILinkFn;
};
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  link?: IDirectiveLinkFn|IDirectivePrePost;
  restrict?: string;
  template?: string|Function;
  templateUrl?: string|Function;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
};
  link?: IDirectiveLinkFn|IDirectivePrePost;
  restrict?: string;
  template?: string|Function;
  templateUrl?: string|Function;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}

export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes,
   transclude: IDirectiveLinkFn): IDirectivePrePost;
}

export interface IDirectivePrePost {
  pre?: IDirectiveLinkFn;
  post?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery,
   instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;
  (controller: any, transclude: ITranscludeFunction): void;
}

export interface IComponent {
  bindings?: {
[key: string]: string;
};
  controller?: string|IInjectable;
  controllerAs?: string;
  require?: IDirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
}

export interface IProvider {
  $get: IInjectable;
}

export interface IProvideService {
  provider(token:
Ng1Token, provider: IProvider

factory(token: Ng1Token, factory: Injectable): IProvider;

service(token: Ng1Token, type: Injectable): IProvider;

value(token: Ng1Token, value: any): IProvider;

constant(token: Ng1Token, value: any): void;

decorator(token: Ng1Token, factory: Injectable): void;

export interface IParseService {
  (expression: string): ICompiledExpression;
}

export interface ICompiledExpression {
  assign?(context: any, value: any): any;
}

export interface IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?:
  number, withCredentials?: boolean): void;
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?:
  number, withCredentials?: boolean): void;
}

export interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
}

export interface ITemplateCacheService extends ICacheObject {}

export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<br>
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<br>
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): boolean;
}

export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function, Function): void;
  whenStable(callback: Function): void;
  whenStable(callback: Function): void;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {
    [key: string]: Function;
    [key: string]: Function;
  };
  $asyncValidators: {
    [key: string]: Function;
    [key: string]: Function;
  };
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;

angular = {
  bootstrap: (e: Element, modules: (string | Injectable)[], config?) =>
    angular.bootstrap(e, modules, config);
  module: (prefix: string, dependencies?: string[]) =>
    angular.module(prefix, dependencies);
  element: (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    angular.element(e);
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);
  version: {major: number},
  resumeBootstrap: () => angular.resumeBootstrap();
  getTestability: (e: Element) => angular.getTestability(e);
  getTestability: (e: Element) => angular.getTestability(e);
  getTestability: (e: Element) => angular.getTestability(e);
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`. @publicApi
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  setAngularJSGlobal(ng);
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).

export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;

element.cleanData = nodes =>
    angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<Injectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const
getTestability: typeof angular.getTestability = e => angular.getTestability(e);\n","/**
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 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$$angularCompiler';
export const DOWNGRADED_MODULE_NAME = '$$UpgradeModule';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$$UpgradeModule';

/**
 * A `PropertyBinding` represents a mapping between a property name and an attribute name. It is parsed from a string of the form `"prop:attr"`; or simply `"propAndAttr"` where the property and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `(${this.attr})`;
    this.bracketParenAttr = `\[(${this.attr})\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}

/**
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 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-
]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!\n  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

UpgradeAppType.None;

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getUpgradeAppType($injector);

const downgradedModuleCount = getDowngradedModuleCount($injector);

// Check for common errors.
switch (upgradeAppType) {
  case UpgradeAppType.Dynamic:
    case UpgradeAppType.Lite:
      throw new Error('Error while ' +
        'downgradeModule' +
        ' not specified.' +
        'This application contains more than one downgraded Angular module,' +
        'thus you need to always specify ' +
        'downgradeModule\nwhen downgrading components and injectables.');
      break;
  default:
    throw new Error('Error while ' +
        'not a valid '@angular/upgrade' application.' +
        'Did you forget to downgrade an Angular module or include it in the AngularJS' +
        ' application?');
}

export class Deferred<R> {
  promise: Promise<R>;
  resolve!: (value?: R | PromiseLike<R>) => void;
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

const enum UpgradeAppType {
  None,
  Dynamic,
  Static,
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for AngularJS `ng-model`
 *     compatibility.
 */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component
 * (if it implements the needed subset of the `ControlValueAccessor` interface).
 */
export function hookupNgModel(ngModel: INgModelController,
    component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setViewValue.bind(ngModel));
    }
  }
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;

  // TODO(issue/24571): remove !.private componentRef !: ComponentRef<any>;
  // private component: any;
  // TODO(issue/24571): remove !.private changeDetector !: ChangeDetectorRef;
  // private $scope:
  private componentInjectors: Injector;
ICompileService,
private $parse: IParseService, private componentFactory: ComponentFactory<any>,

private wrapCallback: <T>(cb: () => T) => () => T) {
  this.componentScope = scope.$new();
}

compileContents(): Node[][] {
  const compiledProjectableNodes: Node[][] = [];
  const projectableNodes: Node[][] = this.groupProjectableNodes();
  const linkFns = projectableNodes.map(nodes =>
    this.$compile(nodes));

  this.element.empty();

  linkFns.forEach(linkFn => {
    linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append(clone);
        }));

  return compiledProjectableNodes;
}

createComponent(projectableNodes: Node[][]) {
  const providers: StaticProvider[] = [{
    provide: $SCOPE, useValue: this.componentScope
  }];
  const childInjector = Injector.create(
    {providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});

  this.componentRef = this.componentFactory.create(childInjector,
    projectableNodes, this.element[0]);
  this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
  this.changeDetector = this.componentRef.changeDetectorRef;
  this.component = this.componentRef.instance;

  const testability = this.componentRef.injector.get(Testability, null);
  if (testability) {
    this.componentRef.injector.get(TestabilityRegistry).
      registerApplication(this.componentRef.location.nativeElement, testability);
  }

  hookupNgModel(this.ngModel, this.component);
}

setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
  for (let i = 0; i < inputs.length; i++) {
    const input = new PropertyBinding(inputs[i].propName,
        inputs[i].templateName);
    let expr: string = null;

    if (attrs.hasOwnProperty(input.attr)) {
      const observeFn = (prop => {
        let prevValue = INITIAL_VALUE;
        return (currValue: any) => {
          if (!strictEquals(prevValue, currValue)) {
            if (prevValue === INITIAL_VALUE) {
              prevValue = currValue;
            }
            this.updateInput(prop, prevValue, currValue);
            prevValue = currValue;
          }
        };
      })(input.prop);
      attrs.$observe(input.attr, observeFn);

      let unwatch: Function = this.componentScope.$watch(expr, watchFn);
      this.componentScope.$watch(expr, unwatch).
    }
    if (attrs.hasOwnProperty(input.bindAttr)) {
      expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
      expr = attr[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      expr = attr[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
      expr = attr[input.bracketParenAttr];
    } else if (expr !== null) {
      const watchFn = (prop => (currValue: any, prevValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }

    if (this.implementsOnChanges) {
      this.componentScope.$watch(() => this.inputChanges,
          this.wrapCallback(() => {
            this.component = this.componentFactory.
              create(inputChanges));

            <OnChanges>this.component$.ngOnChanges();
          }));
      this.componentScope.$watch(() => {
        if (this.implementsOnChanges) {
          this.componentScope.$watch(expr, watchFn);
        }
      });
      this.componentScope.$watch(expr, watchFn);
    }

    // If not opted out of propagating digests, invoke change detection
    // when inputs change.
    if (propagateDigest) {
      this.detectChanges();
    }
  }
}

detectChanges() {
  this.detectChanges = () =>
      this.changeDetector.detectChanges();
  this.implementsOnChanges = true;
  this.prototype = this.componentFactory.
      createComponent.prototype.$proto;
  this.implementsOnChanges = !(this.prototype &
      <OnChanges>prototype).ngOnChanges();
  this.componentScope.$watch(() => {
    if (this.implementsOnChanges) {
      this.componentScope.$watch(expr, watchFn);
    } else if (this.implementsOnChanges) {
      this.componentScope.$watch(expr, watchFn);
    }

    this.componentScope.$watch(expr, watchFn);
  });

  this.viewChangeDetector.markForCheck();
  if (this.implementsOnChanges) {
    // If not opted out of propagating digests, invoke change detection
    // when inputs change.
    if (propagateDigest) {
      this.detectChanges();
    } else if (this.implementsOnChanges) {
      this.componentScope.$watch(expr,
          this.wrapCallback(this.detectChanges));
    } else if (this.implementsOnChanges) {
      this.componentScope.$watch(expr, watchFn);
    } else if (this.implementsOnChanges) {
      this.componentScope.$watch(expr, watchFn);
    } // If necessary, attach the view so that
    // it will be dirty-checked.
  } // Allow time for the initial input values to be set and
  // ngOnChanges() to be called.
if (manuallyAttachView || !propagateDigest) {
  let unwatch: Function|null = this.componentScope.$watch(() => {
    unwatch = null;
    const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
    appRef.attachView(this.componentRef.hostView);
    unwatch = null;
    setupOutputs();
  });

  const attrs = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
    const bindOnAttr = output.bindOnAttr.substring(0, output.bindOnAttr.length - 6);
    const bracketParenAttr = `
      ${(output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8))}`;

    if (attrs.hasOwnProperty(bindOnAttr)) {
      this.subscribeToOutput(output, attrs[bindOnAttr], true);
    }
    if (attrs.hasOwnProperty(bracketParenAttr)) {
      this.subscribeToOutput(output, attrs[bracketParenAttr], true);
    }
    if (attrs.hasOwnProperty(output.onAttr)) {
      this.subscribeToOutput(output, attrs[output.onAttr]);
    }
    if (attrs.hasOwnProperty(output.parenAttr)) {
      this.subscribeToOutput(output, attrs[output.parenAttr]);
    }
  }

  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as EventEmitter<any>;
    if (emitter) {
      emitter.subscribe({
        next: isAssignment ? (v: any) => setter(this.scope, v) :
                             (v: any) => getter(this.scope, {'$event': v})
      });
    } else {
      throw new Error('Missing emitter '${output.prop}' on component
      '${getTypeName(this.componentFactory.componentType)}'!');
    }
  }

  registerCleanup() {
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;

    this.element.on('$destroy', () => this.componentScope.$destroy());
    this.componentScope.$on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
  }

  getInjector(): Injector { return this.componentRef.injector; }

  private updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
      this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
    }
    this.inputChangeCount++;
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents || []);
  }

  function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [];
    let wildcardNgContentIndex: number = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
      const ngContentIndex = findMatchingNgContentIndex(ngContentSelectors[i], nodes);
      if (ngContentIndex !== null) {
        projectableNodes[ngContentIndex].push(node);
      }
    }
    return projectableNodes;
  }

  function findMatchingNgContentIndex(element: Node, ngContentIndex: number): number {
    if (ngContentIndex !== null) {
      return ngContentIndex;
    }
    let index = 0;
    for (; index < ngContentSelectors.length; index++) {
      if (matchesSelector(element, ngContentSelectors[index])) {
        return index;
      }
    }
    return -1;
  }

  function matchesSelector(element: any, selector: string): boolean {
    if (_matches) {
      return _matches.call(el, selector);}
    const proto = <any>Element.prototype;
    return proto.matches || proto.webkitMatchesSelector ||
        proto.mozMatchesSelector || proto.oMatchesSelector ||
        proto.msMatchesSelector;
  }

  let _matches: (this: any, selector: string) => boolean = undefined;

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```typescript
import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T>[] {
    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) result.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return result.resolve(value: T) => { void (un // Do nothing, if already resolved. un if (this.resolved)
      un this.value = value;
      un this.resolved = true;
      un // Run the queued callbacks.
      un this.callbacks.forEach(callback => callback(value));
      un this.callbacks.length = 0;
      un then(callback: (value: T) => unknown): void {
        if (this.resolved) {
          callback(this.value !);
        } else {
          this.callbacks.push(callback);
        }
      }
    })
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}

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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering
 * an AngularJS component that wraps the Angular component.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs
 * to be made available in AngularJS templates.
 *
 * ```typescript
 *
 * import { downgradeComponent } from '@angular/upgrade'
 *
 * const heroesWrapper = downgradeComponent('ng2Heroes', 'app HeroesComponent', 'app HeroesModule', true)
 *
 * ```
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [guide](guide/upgrade#using-angular-components-from-angularjs-code).
 *
 * @param info contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that will be downgraded
 * - `downgradedModule?: string`: The name of the downgraded module (if any) that the component
 *   "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose
 *   corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
 * - `propagateDigest?: boolean`: Whether to perform [change detection](guide/platform/ changes) on the component on every
 *   change detection will still be performed when any of the component's inputs changes.
 *   (Default: true)
 *
 * @returns a factory function that can be used to register the component in an
 * AngularJS module.
 *
 * @publicApi
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean; inputs?: string[];
  outputs?: string[];
  ```
longer used */
  selectors?: string[];}
): any /* angular.IInjectable */ {
  const directiveFactory:
    IAnnotatedFunction = function($compile: ICompileService, $injector: IInjectorService, $parse:
    IParseService): IDirective {
      // - We always need to attach the component view to the `ApplicationRef` for it to be
        // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
        //   Angular zone.
      // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
        // inside the Angular zone (except if explicitly escaped, in which case we shouldn't
        // force it back in).
      const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
      const
      wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
      NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
      let ngZone: NgZone;

      // When downgrading multiple modules, special handling is needed wrt injectors.
      const hasMultipleDowngradedModules =
        isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
      return {
        // restrict: 'E',
        true,
        require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
        link: (scope: IScope, element:
        IAugmentedJQuery, attrs: IAttributes, required: any[]):
        // We might have to compile the contents asynchronously, because this might have been
        // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
        // been compiled.
        const ngModel: INgModelController =
        required[1];
        const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
        let
        moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
        let ranAsync = false;

        if
        (parentInjector || hasMultipleDowngradedModules) {
          const downgradedModule = info.downgradedModule
            || '';
          const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
          const
          attemptedAction = `instantiating component '${getTypeName(info.component)}'`;
          validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);
          const
          lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
          moduleInjector =
            lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
        }

        // Notes:
        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
        // the same instance, but that is irrelevant);
        // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
        //   be on the same tree as the `NgModule` that declares this downgraded component.
        // - `finalParentInjector` is used for all other injection purposes.
        // (Note that Angular knows to only traverse the component-tree part of that injector,
        // when looking for an injectable and then switch to the module
        // injector.)
        // - There are basically three cases:
        //   - If there is no parent component (thus no
          //     `parentInjector`), we bootstrap the downgraded
        //     `NgModule` and use its injector as both
          //     `finalModuleInjector` and
        //     `finalParentInjector`
        //   - If there is a parent component (and thus a
          //     `parentInjector`) and we are sure that it
        //     belongs to the same `NgModule` as this downgraded component
          //     (e.g. because there is only
        //     one downgraded module, we use that `parentInjector` as both
          //     `finalModuleInjector` and
        //     `finalParentInjector`)
        //   - If there is a parent component, but it may belong
to a different `NgModule`, then we
          //     use the `parentInjector` as `finalParentInjector` and this downgraded
        //     component
          //     declaring `NgModule`'s injector as `finalModuleInjector`.
          //   Note 1: If the
        //     `NgModule` is already bootstrapped, we just get its injector (we don't
        //     bootstrap again).
        // Note
        2: It is possible that (while there are multiple downgraded modules) this
        // downgraded component and
        // its parent component both belong to the same `NgModule`.
        // In that case, we could have used the
        // `parentInjector` as both
        // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
        // treating this case as if they belong to different `NgModule`s. That doesn't
        // really affect
        // anything, since `parentInjector` has `moduleInjector` as ancestor
        // and trying to resolve
        // `ComponentFactoryResolver` from either one will return
        // the same instance.
        // If there is a
        // parent component, use its injector as parent injector.
        // If this is a `top-level` Angular component, use the
        // module injector.
        const
          finalParentInjector = parentInjector || moduleInjector;
          // If this is a `top-level` Angular component or the parent component may belong to a
          // different `NgModule`, use the module
          // injector for module-specific dependencies.
          // If there is a parent component that belongs to the same

'NgModule', use its injector.

const finalModuleInjector = moduleInjector || parentInjector !;

const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`
  // this
  // const component belongs to.
  const componentFactoryResolver: ComponentFactoryResolver =
    injector.get(ComponentFactoryResolver);

  const finalComponentFactory = componentFactoryResolver.resolveComponentFactory(info.component) !;

  throw new Error('Expecting ComponentFactory for: ');

  if (finalComponentFactory) {
    const injector = moduleInjector || parentInjector !;
    componentFactory = finalComponentFactory;
  }

  const downgradedFn =
    !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(pInjector, mInjector))();
    };

    SyncPromise.all([finalParentInjector, finalModuleInjector])
        .then(([pInjector, mInjector]) =>
          downgradedFn(pInjector, mInjector));

    ranAsync = true;
  }

  // bracket-notation because
  // of closure - see #14441

directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];

return directiveFactory;

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 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function that provides access to the
 * Angular service identified by the `token` parameter.
 *
 * A helper function to allow an Angular service to be accessible from AngularJS
 * @param * Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps
 * that support AOT compilation
 * @param * This helper function returns a factory function that provides access
 * to the Angular service identified by the `token` parameter.
 * @param * Example
 * @param * First ensure that the service to be downgraded is provided in an
 * `NgModule` that will be part of the upgrade application.
 * For example, let's assume we have an
 * defined `HeroesService` that returns a factory function that provides access to
 * the Angular service identified by the `token` parameter.
 * @param * Example

upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is not OK to use it in an AngularJS component from a different module.

@publicApi @export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
  return injector.get(token);
}

const injector = new Injector();

constructor(private modInjector: Injector) {}

@publicApi @export function injectorFactory() {
  return injector.get('$injector');
}

@publicApi @export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

@publicApi @export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

@publicApi @export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

@publicApi @export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: ['$injector']},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];
LICENSE file at https://angular.io/license

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {InjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {$INJECTOR, $PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from 'angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module "on-demand" (possibly lazily) when a @link downgradeComponent downgraded component needs to be instantiated.
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.
 * It allows loading/bootstraping the Angular part of a hybrid application lazily and not having to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for specific routes and only instantiate the Angular modules if/when the user visits one of these routes. The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.
 * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`'s `bootstrapModuleFactory()`.
 * - `Function`: If you pass a function, it is expected to return a promise resolving to an `NgModuleRef`. The function is called with an array of extra `StaticProvider` Providers that are expected to be available from the returned `NgModuleRef`'s `Injector`.
 * Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded `component`.
 * `downgradeModule()` does not bootstrap the main AngularJS module inside the `NgZone`.
 * `downgradeModule()` does not automatically run an `$digest()` when changes are detected in the Angular part of the application.
 * This means that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes.
 * This will inevitably result in more change detection runs than necessary.
 * In MANUAL mode, change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.
 * For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).
 * You can manually trigger a change detection run in Angular using `$apply` or `$digest()` when changes are detected in the Angular part of the application.
 * You can manually trigger a change detection run in Angular using `$apply` or `$digest()` when changes are detected in the Angular part of the application.
 */
associated downgraded component or an injectable needs to be instantiated. Things to keep in mind, when
downgrading multiple modules
- Each downgraded component/injectable needs to be explicitly associated with a downgraded
- If you want some injectables to be shared among all downgraded modules, you can provide them as
  - StaticProvider's, when creating the 'PlatformRef' (e.g. via 'platformBrowser or'
  - 'platformBrowserDynamic'),
- When using (e.g. @link PlatformRef#bootstrapmodule 'bootstrapModule()' )
or
- @link PlatformRef#bootstrapmodulefactory 'bootstrapModuleFactory()' ) to bootstrap the
- downgraded modules, each one is considered a 'root' module. As a consequence, a new instance
  - Each downgraded component/injectable needs to be explicitly associated
  - If you want some injectables to be shared among all downgraded modules, you can provide them as
    - StaticProvider's, when creating the 'PlatformRef' (e.g. via 'platformBrowser or'
    - 'platformBrowserDynamic'),
    - When using (e.g. @link PlatformRef#bootstrapmodule 'bootstrapModule()' )
    - @link PlatformRef#bootstrapmodulefactory 'bootstrapModuleFactory()' ) to bootstrap the
    - downgraded modules, each one is considered a 'root' module. As a consequence, a new instance
      - Each downgraded component/injectable needs to be explicitly associated
      - If you want some injectables to be shared among all downgraded modules, you can provide them as
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contentChildNodes.forEach(node => {
          const slotName =
            slotMap[directiveNormalize(node.nodeName.toLowerCase())];
          if (slotName) {
            filledSlots[slotName] = true;
            slots[slotName] = slots[slotName] || [];
            slots[slotName].push(node);
          } else {
            template.push(node);
          }
        });

        // Check for required slots that were not filled.
        if (Object.keys(filledSlots).forEach(slotName => {
          if (filledSlots[slotName]) { // AngularJS v1.6+ ignores empty or whitespace-only transcluded text
            throw new Error('Required transclusion slot ' + slotName + ' on directive: ' + this.name);
          }
        })) { // To avoid this issue, we add
          // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner) to empty
          text content that starts with whitespace followed by an interpolation
          // will still fail to be detected by AngularJS
          // removes all text content after the first interpolation and updates it later, after
          // evaluating the expressions. This would result in AngularJS failing to recognize text
          // that can only be a result of Angular removing their initial content).
          // NOTE: Transcluded text
          $template.forEach(node => {
            if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
              node.nodeValue = '\u200C';
            }
          });
        }

        return attachChildrenFn;
      }

      resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
        const directiveRequire =
          this.getDirectiveRequire();
        const requiredControllers = this.resolveRequire(directiveRequire);

        if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
          const requiredControllersMap = requiredControllers as {
            [key: string]: IControllerInstance;
          };
          Object.keys(requiredControllersMap).forEach(key => {
            controllerInstance[key] =
              requiredControllersMap[key];
          });
        }

        return requiredControllers;
      }

      private compileHtml(html: string): ILinkFn {
        this.element.innerHTML = html;
        return this.$compile(this.element.childNodes);
      }

      private extractChildNodes(): Node[] {
        const childNodes: Node[] = [];
        let childNode: Node|null;

        while (childNode = this.element.firstChild) {
          this.element.removeChild(childNode);
          childNodes.push(childNode);
        }

        return childNodes;
      }

      private getDirectiveRequire(): DirectiveRequireProperty {
        const require = this.directive.require || (this.directive.controller &&
          this.directive.name) !;

        if (isMap(require)) {
          Object.keys(require).forEach(key => {
            const value = require[key];
            const match = value.match(REQUIRE_PREFIX_RE) !;
            const name =
              value.substring(match[0].length);
            if (name) {
              require[key] = match[0] + key;
            } else {
              require[key] = match[0];
            }
          });
        }

        return require;
      }

      private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
        any): SingleOrListOrMap<IControllerInstance>|null {
        if (!require) {
          return null;
        } else if (Array.isArray(require)) {
          return require.map(req =>
            this.resolveRequire(req));
        } else if (typeof require
          === 'object') {
          const value =
            require[key];
          if (value) {
            return value.match(REQUIRE_PREFIX_RE) !;
          } else {
            return require;
          }
        } else if (typeof require
          === 'string') {
          if (require.match(REQUIRE_PREFIX_RE) !)
            return require.match(REQUIRE_PREFIX_RE) !;

          return require;
        }

        if (typeof require === 'object') {
          if (isMap(require[0])) {
            return require.map(key =>
              this.resolveRequire(key));
          } else {
            return require;
          }
        }

        return null;
      }

      function getOrCall<T>(property: T | Function, ...args: any[]):
        T {
        return (isFunction(property) ? property : property)(...args);
      }

      function isMap<T>(value: SingleOrListOrMap<T>): value is {
        [key: string]: T;
      } {
        return true;
      }
Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}').

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import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, \$looseIdentical as looseIdentical} from '@angular/core';
import {IAtributes, IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '@.../src/common/src/angular1';
import {IScope} from '@.../src/common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '@.../src/common/src/upgrade_helper';
import {IScope} from '@.../src/common/src/util';

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';
const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

class Bindings {
  twoWayBoundProperties: string[] = [
    // Note that we must do the following: * specify the decorator's selector (`ng1-hero`) that needs * to be made available in
    // Angular JS
    // * specify all inputs and outputs that the AngularJS component expects
    // * derive from `UpgradeComponent` call the base class from
    // the constructor, passing * the AngularJS name of the component (`ng1Hero`) * the 'ElementRef' and
    // 'Injector' for the component wrapper * publicApi * export class UpgradeComponent implements
    // OnInit, OnChanges, DoCheck, OnDestroy { * private helper: UpgradeHelper; * private $injector: IInjectorService; * private element: Element; * private $element: IAugmentedJQuery; * private $componentScope: IScope; * private directive: IDirective; * private bindings: Bindings;
    // TODO(issue/24571): remove '!'.
    private controllerInstance!: IControllerInstance;
    // TODO(issue/24571):
    remove '!'.
    private pendingChanges!: SimpleChanges;
    // SimpleChanges | null; // TODO(issue/24571): remove '!'.
    private unregisterDoChecker!: Function;

    /**
     * Create a new `UpgradeComponent` instance. You should not normally need to do this.
     * Instead you should derive a new class from this one and call the super constructor * from the base class.
     * @param name the name of the AngularJS directive.
     * @param elementRef and `injector` parameters should be
     * acquired from Angular by dependency injection into the base class constructor.
     * @param name string, private elementRef: ElementRef, private injector: Injector
     * @param name `this.helper = new UpgradeHelper(injector, name, elementRef);`
     * @param name `this.Selement = this.helper.Selement;`
     * @param name `this.directive = this.helper.directive;`
     * @param name `this.bindings = this.initializeBindings(this.directive);`
     */
    const SparentScope = injector.get($SCOPE);
    // QUESTION 1: Should we create an isolated scope if the scope is only true?
    // QUESTION 2: Should we make the scope accessible through `Selement.scope(isolateScope)`?
    this.ScomponentScope = SparentScope.Snew(!this.directive.scope); // Instantiate controller
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate();
const controllerType = this.directive.controller;
const bindToController = this.directive.bindToController;

if (controllerType) {
  this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
} else if (bindToController) {
  throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
}

// Set up outputs
this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
this.bindOutputs();

// Require other controllers
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

// Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
  this.pendingChanges = null;
}

// Hook: $onInit
if (isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
}

// Hook: $doCheck
if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
  this.callDoCheck = () => this.controllerInstance.$doCheck();
  this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(this.callDoCheck);
}

this.ngDoCheck() {
  const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
  const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
  const propertyToOutputMap = this.bindings.propertyToOutputMap;

  twoWayBoundProperties.forEach((propName, idx) => {
    const newValue = this.bindingDestination[propName];
    const oldValue = twoWayBoundLastValues[idx];

    if (looseIdentical(newValue, oldValue)) {
      return;
    }

    const outputName = propertyToOutputMap[propName];
    const eventEmitter: EventEmitter<any> = (this as any)[outputName];
    eventEmitter.emit(newValue);
    twoWayBoundLastValues[idx] = newValue;
  });
}

this.ngOnDestroy() {
  if (isFunction(this.unregisterDoCheckWatcher)) {
    this.unregisterDoCheckWatcher();
  }

  this.helper.onDestroy(this.$componentScope, this.controllerInstance);
}

this.initializeBindings(directive: IDirective) {
  const btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject && Object.keys(directive.scope).length) {
    throw new Error(`Binding definitions on scope and controller at the same time is not supported.`);
  }

  const context = btcIsObject ? directive.bindToController : directive.scope;
  const bindings = new Bindings();

  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);

      switch (bindingType) {
        case '@':
          break;
        case '<':
          break;
        case '=':
          bindings.twoWayBoundProperties.push(propName);
          bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
          bindings.propertyToOutputMap[propName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    });
  }

  return bindings;
}

this.initializeOutputs() {
  this.bindings.twoWayBoundProperties.push(INITIAL_VALUE);
  this.bindings.propertyToOutputMap.push(propName) = propName + 'Change';
  this.bindings.expressionBoundProperties.push(propName);
any)[outputName] = new EventEmitter();

private bindOutputs() {
  // Bind `&` bindings to the corresponding outputs
  this.bindings.expressionBoundProperties.forEach(propName => {
    const outputName = this.bindings.propertyToOutputMap[propName];
    const emitter = (this as any)[outputName];
    this.bindingDestination[propName] = (value: any) => emitter.emit(value);
  });
}

private bindOutputs() {
  // Bind `&` bindings to the corresponding outputs
  this.bindings.expressionBoundProperties.forEach(propName => {
    const outputName = this.bindings.propertyToOutputMap[propName];
    const emitter = (this as any)[outputName];
    this.bindingDestination[propName] = (value: any) => emitter.emit(value);
  });
}

private forwardChanges(changes: SimpleChanges) {
  // Forward input changes to `bindingDestination`
  Object.keys(changes).forEach(
    propName => this.bindingDestination[propName] = changes[propName].currentValue);

  if (isFunction(this.bindingDestination.$onChanges)) {
    this.bindingDestination.$onChanges(changes);
  }
}

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 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../src/common/src/util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation

 * The `upgrade/static` package contains helpers that allow AngularJS and Angular components to be used together in a hybrid upgrade application, which supports AOT compilation. Specifically, the classes and functions in the `upgrade/static` module allow the following:

 * Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.

 * Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be used in an AngularJS template. See `downgradeComponent`.

 * Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See

 * Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See

 * The `upgrade/static` package contains helpers that allow AngularJS and Angular components to be used together in a hybrid upgrade application, which supports AOT compilation. Specifically, the classes and functions in the `upgrade/static` module allow the following:

 * Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.

 * Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be used in an AngularJS template. See `downgradeComponent`.

 * Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See

 * Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See

 * When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level.

 * There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others. Angular directives always execute inside the AngularJS framework codebase regardless of where they are instantiated. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

 * An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.

 * An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.

 * Whenever an Angular directive is instantiated, the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that the component bindings will always follow the semantics of the instantiation framework.

 * Attributes in AngularJS templates must use kebab-case, while AngularJS
templates must use `camelCase`

  3. However the template binding syntax will always use the Angular style, e.g. squarebrackets `[...` for property binding. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. The `UpgradeModule` class

### The `UpgradeModule` class

  1. Importing this `NgModule` will add providers for the core AngularJS services

  2. The `UpgradeModule` class is an `NgModule`, which you import to provide AngularJS core services and has an instance method used to bootstrap the hybrid upgrade application.

### Examples

  1. Import the `UpgradeModule` into your top level NgModule

  2. Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap your top level AngularJS module onto an element in the DOM for the hybrid upgrade application. It also contains properties to access the AngularJS root component of the application.

### The `UpgradeModule` class

  1. Core AngularJS services

  2. Bootstrap

### Upgrading an AngularJS service

  1. There is no specific API for upgrading an AngularJS service. Instead you should just follow the same recipe.

  2. Let's say you have an AngularJS service.

```typescript
UpgradeModule
```
if (mod && mod.__esModule) return mod;

var result = {};

if (mod !== null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];

result.default = mod;

return result;

export function __importDefault(mod) {

    if (mod && mod.__esModule) return mod;
    var result = {};
    if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];
    result.default = mod;
    return result;
}

export function __importDefault(mod) {
    return (mod && mod.__esModule) ? mod : {
        default: mod
    };
}

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 * found in the LICENSE file at
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 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
    // Older versions of `@types/angular` typings extend the global `Function` interface within
    // `Sinject?: string[]`, which is not compatible with `Sinject?:
    // ReadonlyArray<string>` (used in latest versions).
    Sinject?: Function extends {Sinject?: string[]};
}

export function IAnnotatedFunction; export type Injectable = (Ng1Token | Function)[];

IAnnotatedFunction; export type Injectable = (Ng1Token | Function)[];

IModule; export interface Injectable extends IModule; export type Injectable = (Ng1Token | Function)[];

IModule; export interface Injectable extends IModule; export type Injectable = (Ng1Token | Function)[];

IRootScopeService; export type Injectable = (Ng1Token | Function)[];

IRootScopeService; export type Injectable = (Ng1Token | Function)[];

IDirective; export interface Injectable = (Ng1Token | Function)[];

IDirective; export interface Injectable = (Ng1Token | Function)[];

IComponent; export interface Injectable = (Ng1Token | Function)[];

IComponent; export interface Injectable = (Ng1Token | Function)[];

IAttributes; export interface Injectable = (Ng1Token | Function)[];

IAttributes; export interface Injectable = (Ng1Token | Function)[];

ITranscludeFunction; export interface Injectable = (Ng1Token | Function)[];

ITranscludeFunction; export interface Injectable = (Ng1Token | Function)[];

IRootScopeService

export type Injectable = (Ng1Token | Function)[];

export interface Injectable extends IRootScopeService {}

export interface IDirective {
    compile?: IDirectiveCompileFn;
    controller?: IController;
    controllerAs?: string;
    bindToController?: boolean|{
        [key: string]: string;
    };
    link?: IDirectiveLinkFn|IDirectivePrePost;
    name?: string;
    priority?: number;
    replace?: boolean;
    require?: DirectiveRequireProperty;
    restrict?: string;
    scope?: boolean|{
        [key: string]: string;
    };
    template?: string|Function;
    templateUrl?: string|Function;
    terminal?: boolean;
    transclude?: DirectiveTranscludeProperty;
}

export interface IDirectiveCompileFn {
    (templateElement: IAugmentedJQuery, templateAttributes: IAttributes,
     transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
    pre?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn {
    (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes,
     controller: any, transclude: ITranscludeFunction): void;
}

export interface IComponent {
    bindings?: {
        [key: string]: string;
    };
    controller?: string|IInjectable;
    controllerAs?: string;
    require?: DirectiveRequireProperty;
    restrict?: string;
    scope?: boolean|{
        [key: string]: string;
    };
    template?: string|Function;
    templateUrl?: string|Function;
    terminal?: boolean;
    transclude?: DirectiveTranscludeProperty;
}

export interface DirectiveTranscludeProperty {
    $parentBoundTranscludeFn?: Function;
    $transcludeControllers?: {
        [key: string]: any;
    };
    $futureParentElement?: IAugmentedJQuery;
    $templateElement?: string;
    $transcludeFn?: (scope: IScope, cloneAttachFn?: ICloneAttachFunction): IAugmentedJQuery;
}

export interface ILinkFn {
    (scope: IScope, cloneAttachFn?: ICloneAttachFunction): IAugmentedJQuery;
    $$slots?: {
        [slotName: string]: string;
    };
}

export interface ILinkFnOptions {
    parentBoundTranscludeFn?: Function;
    $$childTail: IScope;
    $$childHead: IScope;
    $$nextSibling: IScope;
}

export interface IRootScopeService {
    $new(isolate?: boolean): IScope;
    $id: string;
    $parent: IScope;
    $root: IScope;
    $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
    $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
    $destroy(): any;
    $apply(exp?: Ng1Expression): any;
    $digest(): any;
    $evalAsync(exp: Ng1Expression, locals?: any): void;
    $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
    $$childTail: IScope;
    $$childHead: IScope;
    $$nextSibling: IScope;
    [key: string]: any;
}

export interface IAngularBootstrapConfig {
    strictDi?: boolean;
}

export interface IDirective {
    compile?: IDirectiveCompileFn;
    controller?: IController;
    controllerAs?: string;
    bindToController?: boolean|{
        [key: string]: string;
    };
    link?: IDirectiveLinkFn|IDirectivePrePost;
    name?: string;
    priority?: number;
    replace?: boolean;
    require?: DirectiveRequireProperty;
    restrict?: string;
    scope?: boolean|{
        [key: string]: string;
    };
    template?: string|Function;
    templateUrl?: string|Function;
    terminal?: boolean;
    transclude?: DirectiveTranscludeProperty;
}

export type DirectiveRequireProperty = SingleOrListOrMap<string>;

export type DirectiveTranscludeProperty = boolean | 'element' | {
    [key: string]: string;
}

export interface IAttributes {
    $observe(attr: string, fn: (value: string) => void): void;
    [key: string]: any;
}

export interface ITranscludeFunction {
    (scope: IScope, cloneAttachFn?: ICloneAttachFunction): void;
}

export interface ICloneAttachFunction {
    (clonedElement: IAugmentedJQuery, clonedAttachFn?: ICloneAttachFunction): void;
}

export interface IAugmentedJQuery {
    $tag?: string;
    $popup Tencent?
    $port Tencent?
    $event Tencent?
    $data Tencent?
    $text Tencent?
    $html Tencent?
    $data Tencent?
    $text Tencent?
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    $html Tencent?
angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

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 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

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 */

import {Injector, NgModule, Type} from '@angular/core';

import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';

let $injector: angular.IInjectorService|null = null;
let injector: Injector;

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]})
export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS
 * services.
 *
 * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular
 * and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * This makes it simpler and faster to unit test services.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated
 * as
 * needed by the AngularJS `injector` as configured to
 * wire up the Angular and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * This results in a much simpler setup that is faster to unit test services.
 * When configuring the TestBed, use the returned class as an `injector` when
 * configuring the TestBed with two
 * imports. The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the
 * AngularJS part.
 * This helper is for testing services not Components.
 * For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or
 * `downgradeModule` for more information.
 * The resulting configuration does not wire up AngularJS digests to Zone
 * hooks. It is the
 * responsibility of the test writer to call `$rootScope.$$apply`, as necessary, to trigger AngularJS
 * handlers of async events from Angular.
 * The helper sets up global variables to hold the shared Angular and AngularJS injectors.
 * Only call this helper once per spec.
 * Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.
 * Here is the example application and its unit tests that use `createAngularTestingModule`
 * and
 * `createAngularJSTestingModule`.
 */

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path="upgrade/static/ts/full/module.spec.ts">

```typescript
/**
 * A helper function to use when unit testing AngularJS services that depend upon downgraded Angular services.
 * In the following code snippet, we are configuring the `$injector` with two modules: AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the `Ng2AppModule`, which is the Angular part.

```typescript
@publicApi
*/
export function createAngularTestingModule(
    angularJSModules: string[],
    strictDi?: boolean): Type<any> {
  angular.module('$$angularJSTestingModule', angularJSModules)
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, () => injector);
  $injector = angular.injector(['ng', '$$angularJSTestingModule'], strictDi);
  return AngularTestingModule;
}

/**
 * A helper function to use when unit testing AngularJS services that depend upon downgraded Angular services.
 * In the following code snippet, we are configuring the `$injector` with two modules: AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the `Ng2AppModule`, which is the Angular part.

```typescript
@publicApi
*/
export function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module('$$angularJSTestingModule', [])
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, () => TestBed.injector);
}</code-example>

```typescript
```
The page contains TypeScript code related to the Angular framework, specifically focusing on various TypeScript interfaces and functions, such as `IModule`, `IRootScopeService`, and `IInjectionService`. The code includes definitions for interfaces that are part of the Angular framework, with documentation and examples of how to use them. The code is well-structured and uses proper naming conventions for the interfaces and functions, indicating a high level of organization and adherence to TypeScript standards.
config?) => angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug

angular.module(prefix, dependencies)

// Do not declare as `module` to avoid webpack bug

export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;

element.cleanData = nodes =>
    angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

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 */

export const $COMPILE = '$compile';

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 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';

function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '');
}

function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return type.name || type.toString().split('\n')[0];
}

function getDowngradedModuleCount($injector: IInjectorService):
function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
    $injector.get(UPGRADE_APP_TYPE_KEY) :
    UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export function validateInjectionKey(
    $injector: IInjectorService,
    upgradedModule: string, injectionKey: string,
    attemptedAction: string): void {
  let upgradeAppType = getUpgradeAppType($injector);
  let upgradedModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (upgradedModule) {
        throw new Error(`Error while ${attemptedAction}: 'upgradedModule' unexpectedly specified. You should not specify a value for 'upgradedModule', unless you are downgrading more than one Angular module (via @downgradedModule('\')).`);
      }
      break;
    case UpgradeAppType.Lite:
      if (!upgradedModule && (upgradedModuleCount >= 2)) {
        throw new Error(`Error while ${attemptedAction}: 'upgradedModule' not specified. This application contains more than one downgraded Angular module, thus you need to always specify @downgradedModule(\ when downgrading components and injectables.).`);
      }
      if (!$injector.has(injectionKey)) {
        throw new Error(`Error while ${attemptedAction}: Unable to find the specified upgraded module. Did you forget to downgrade an Angular module or include it in the AngularJS application?`);
      }
      break;
    default:
      throw new Error(`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.`);
  }
}

export class Deferred<R> {
  promise: Promise<R>;
  resolve!: (value?: R | PromiseLike<R>) => void;
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  None,
  Dynamic,
  Static,
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for AngularJS `ng-model`
 *     compatibility. (This should never happen in an
 *     @angular/upgrade app.)
 */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component
 * (if it implements the needed subset of the `ControlValueAccessor` interface).
 */
export function hookupNgModel(ngModel: INgModelController,
    component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouchedValue.bind(ngModel));
    }
  }
}

/**
 * Test two values for strict equality, accounting for the fact that NaN != NaN.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef,
  ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
  StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';
import {IAttributes,
  IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {...
__UNINITIALIZED__: true

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  private componentRef!: ComponentRef<any>;
  private component: any;
  private changeDetector!: ChangeDetectorRef;
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery,
    private attrs: IAttributes,
    private scope: IScope,
    private ngModel: INgModelController,
    private parentInjector: Injector,
    private $injector: IInjectorService,
    private $compile: ICompileService,
    private $parse: IParseService,
    private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes => {
      this.$compile(nodes)(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append!(clone);
        });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({
      providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'
    });
    this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref.bootstrap
    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry).registerApplication(this.componentRef.location.nativeElement, testability);
    }

    hookUpNgModel(this.ngModel, this.component); // setupInputs()
    setupInputs()(this.element, true, function (prop) {
      const attrs = this.attrs;
      const inputs = this.componentFactory.inputs || [];
      for (let i = 0; i < inputs.length; i++) {
        const input = new PropertyBinding(inputs[i].propName,
          inputs[i].templateName);
        let expr: string = null;
        if (attrs.hasOwnProperty(input.attr)) {
          const observeFn = (prop => {
            let prevValue = INITIAL_VALUE;
            return (currValue: any) => {
              // Initially, both `$observe()` and `$watch()` will call this function.
              if (!strictEquals(prevValue, currValue)) {
                if (prevValue === INITIAL_VALUE) {
                  prevValue = currValue;
                }

                this.updateInput(prop, prevValue, currValue);
                prevValue = currValue;
              }
          })(input.prop);
          attrs.$observe(input.attr, observeFn);

          // Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time
          // for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
          // which means that `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
          // callback. let unwatch: Function = null; = this.componentScope.$watch(() => unwatch !();
          unwatch = null;
          observeFn(attrs[input.attr])
        } else if (attrs.hasOwnProperty(input.bindAttr)) {
          expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
          expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bindonAttr)) {
          expr = attrs[input.bindonAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
          expr = attrs[input.bracketParenAttr];
        } else if (expr != null) {
          const watchFn = (prop => (currValue: any) =>
            this.updateInput(prop, prevValue, currValue))(input.prop);
          this.componentScope.$watch(expr, watchFn);
        } else if (expr !== null) {
          const watchFn = (prop => (currValue: any) =>
            this.updateInput(prop, prevValue, currValue))(input.prop);
        }
      }
    });

    // Invoke `ngOnChanges()` and Change Detection (when necessary)
    const detectChanges = () => this.changeDetector.detectChanges();
    const prototype = this.componentFactory.componentType.prototype;
    this.implementsOnChanges = !(prototype && (<OnChanges>prototype).ngOnChanges);
    this.componentScope.$watch(() => this.componentScope.$watch(!));
  }
inputChanges = this.inputChanges;
    this.inputChanges = {};

    if (this.implementsOnChanges) {
      this.viewChangeDetector.markForCheck();
    } // If opted out of propagating digests, invoke change detection when inputs change.
    if (!propagateDigest) {
      for (let j = 0; j < outputs.length; j++) {
        const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
        const bracketParenAttr = `\[${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)}\]`;
        // order below is important - first update bindings then evaluate expressions
        if (attrs.hasOwnProperty(bindonAttr)) {
          this.subscribeToOutput(output, attrs[bindonAttr], true);
        }
        if (attrs.hasOwnProperty(bracketParenAttr)) {
          this.subscribeToOutput(output, attrs[bracketParenAttr], true);
        }
        if (attrs.hasOwnProperty(output.onAttr)) {
          this.subscribeToOutput(output, attrs[output.onAttr], true);
        }
      }
    }
  }

  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as EventEmitter<any>;
    if (emitter) {
      emitter.subscribe({
        next: isAssignment ? (v: any) => setter!(this.scope, v) :
                             (v: any) => getter(this.scope, {'$event': v})
      });
    } else {
      throw new Error(`Missing emitter '${output.prop}' on component ${getTypeName(this.componentFactory.componentType)}!`);
    }
  }

  registerCleanup() {
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;

    this.element.on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
  }

  getInjector(): Injector { return this.componentRef.injector; }

  updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
      this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
    }

    this.inputChangeCount++;
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents());
  }

  findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
      const projectableNodes = findMatchingNgContentIndex(node, ngContentSelectors);[
        if (ngContentIndex != null) {
          ngContentIndices.push(ngContentIndex);
        }
      }]
      function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
        return projectableNodes[element];
      }
    }]
    ngContentIndices.sort();
  }
}
ngContentIndices.push(wildcardNgContentIndex);
} return ngContentIndices.length ? ngContentIndices[0] : null;
}

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector ||
        elProto.mozMatchesSelector || elProto.msMatchesSelector ||
        elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)|[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}

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 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that
 * allows an Angular component to be used from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation
 *
 * * Examples
 * [@example upgrade/static/ts/full/module.ts region="ng2-heroes"]
 * [@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"]
 *
 * * This helper function returns a factory function that can be used to define the
 * AngularJS directive that wraps the Angular component.
 */

ngContentIndices.push(wildcardNgContentIndex);
} return ngContentIndices.length ? ngContentIndices[0] : null;

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector ||
        elProto.mozMatchesSelector || elProto.msMatchesSelector ||
        elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

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  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}

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 */

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ngContentIndices.push(wildcardNgContentIndex);
} return ngContentIndices.length ? ngContentIndices[0] : null;

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector ||
        elProto.mozMatchesSelector || elProto.msMatchesSelector ||
        elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
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import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
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}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
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  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}
change detection} on the component on every

[\$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`, the change detection will still be performed when any of the component's inputs changes. (Default: true)\n
* \n
@returns a factory function that can be used to register the component in an \n
* AngularJS module.\n
* \n
*/export function downgradeComponent(info: {\n    component: Type<any>; downgradedModule?: string; propagateDigest?: boolean; \n
    /** @deprecated since v4. This parameter is no longer used */ \n
    inputs?: string[]; \n
    /** @deprecated since v4. This parameter is no longer used */ \n
    outputs?: string[]; \n
    /** @deprecated since v4. This parameter is no longer used */ \n
    selectors?: string[]; \n
}): any /* angular.IInjectable */ {\n    const directiveFactory: IAnnotatedFunction = function($compile: ICompileService, $injector: IInjectorService, $parse: IParseService): IDirective {\n        // When using `downgradeModule()`, we need to handle certain things specially. For example:\n        // - We always need to attach the component view to the `ApplicationRef` for it to be\n          //   dirty-checked.\n        // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n          //   Angular zone.\n        // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n          //   inside the Angular zone (except if explicitly escaped, in which case we shouldn't)\n          //   force it back.\n        \n        const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\n        \n        // When downgrading multiple modules, special handling is needed wrt injectors.\n        \n        if (!parentInjector || hasMultipleDowngradedModules) {\n            const downgradedModule = info.downgradedModule \n                ? $injector.get(downgradedModule) as LazyModuleRef;\n            \n            validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);\n            lazyModuleRef = Injector.get(lazyModuleRefKey) as LazyModuleRef;\n            moduleInjector = lazyModuleRef.injector \n            lazyModuleRef.promise as Promise<Injector>\n        } else {\n            \n            const lazyModuleRefKey = `${LAZY_MODULE_REF}${info.component}`;\n        }\n        const attemptedAction = `instantiating component '${info.component}'`;\n        \n        validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);\n    }\n    \n    moduleInjector = lazyModuleRef.injector \n    lazyModuleRef.promise as Promise<Injector>\n
    // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n    // the same instance, but that is irrelevant)\n    // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must\n    //   be\n    // on the same tree as the `NgModule` that declares this downgraded component.\n    // - `finalParentInjector` is used for all other injection purposes.\n    // (Note that Angular knows to only traverse the component-tree part of that injector,\n    // when looking for an injectable and then switch to the module\n    // injector.)\n    // There are basically three cases:\n    // - If there is no parent component (thus no\n    //   `parentInjector`), we bootstrap the downgraded\n    //   `NgModule` and use its injector as both\n    //   `finalModuleInjector` and `finalParentInjector`.\n    // - If there is a parent component (and thus a\n    //   `parentInjector`) and we are sure that it\n    // belongs to the same `NgModule` as this downgraded component\n    // (e.g. because there is only\n    // one downgraded module, we use that `parentInjector` as both\n    // `finalModuleInjector` and `finalParentInjector`).\n    // - If there is a parent component, but it may belong\n    // to a different `NgModule`, then we\n    //   use the `parentInjector` as `finalParentInjector` and this downgraded\n    // component's\n    //   `NgModule`'s injector as `finalModuleInjector`.\n    // Note 1: If the\n    //   `NgModule` is already bootstrapped, we just get its injector (we don't\n    //   bootstrap again).\n    // Note 2: It is possible that (while there are multiple downgraded modules) this\n    //   downgraded component and its parent component both belong to the same `NgModule`.\n    // In that case, we could have used the\n    // `parentInjector` as both\n    // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are

treating this case as if they belong to different `NgModule`’s. That doesn’t really affect anything, since `parentInjector` has `moduleInjector` as ancestor // and trying to resolve `ComponentFactoryResolver` from either one will return the same instance. // If there is a parent component, use its injector as parent injector. // If this is a top-level Angular component, use the module injector. const finalParentInjector = parentInjector || moduleInjector; // If this is a top-level Angular component or the parent component may belong to a different `NgModule`, use the module injector for module-specific dependencies. // If there is a parent component that belongs to the same `NgModule`, use its injector. const finalModuleInjector = moduleInjector || parentInjector; const doDowngrade = (injector: Injector, moduleInjector: Injector) => { // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this component belongs to. const componentFactoryResolver = new ComponentFactoryResolver(moduleInjector); moduleInjector.get(ComponentFactoryResolver); const componentFactory = componentFactoryResolver.resolveComponentFactory(info.component); if (!componentFactory) { throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`); } const injectorPromise = new ParentInjectorPromise(element); const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback); facade.createComponent(projectableNodes); facade.setupInputs(isNgUpgradeLite, info.propagateDigest); facade.setupOutputs(); facade.registerCleanup(); injectorPromise.resolve(facade.getInjector()); if (ranAsync) { // If this is run async, it is possible that it is not run inside a digest and initial input values will not be detected. scope.$$evalAsync(() => {}); } else { } if (!isNgUpgradeLite) { doDowngradeFn = isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => { if (!ngZone) { ngZone = pInjector.get(NgZone); } wrapCallback(() => doDowngrade(pInjector, mInjector))(); } } directiveFactory[$inject] = [$COMPILING, $INJECTOR, $PARSE]; return directiveFactory; /** * @license * Copyright Google Inc. All Rights Reserved. * * Use of this source code is governed by an MIT-style license that can be * found in the LICENSE file at https://angular.io/license */ import {Injector} from '@angular/core'; import {IInjectorService} from './angular1'; import {$INJECTOR, INJECTOR_KEY} from './constants'; import {getTypeName, isFunction, validateInjectionKey} from './util';

/** * @description * * A helper function to allow an Angular service to be accessible from AngularJS. * * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid apps that support AOT compilation * * * @usageNotes * * ### Examples
 * * First ensure that the service to be downgraded is provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have a service defined `HeroesService` that is supported by the upgrade application. Now we can register the `downgradeInjectable` function for the service:

```typescript
import {HeroesService} from 'ng2-heroes-service';

@downgradeInjectable(['HeroesService'])
export class HeroesModule {
  constructor(private heroesService: HeroesService) {
    this.heroesService.getHeroes();
  }
}
```

This will allow the `HeroesService` to be used from AngularJS.
on an AngularJS module.

```typescript
/**
 * @example upgrade/static/ts/full/module.ts region="\"downgrade-ng2-heroes-service\""
 */

/**
 * Inside an AngularJS component's controller we can get hold of the `\n * downgraded service via the name we gave when downgrading.`
 * When using `\`downgradeModule()\`, downgraded injectables will not
 * be available until the Angular\`n * module that provides them is instantiated. In order to be safe, you need to ensure
 * that the\`n * downgraded injectables are not used anywhere \_outside\_ the part of the app where it is\`n * guaranteed that their module has been instantiated.\`n * For example, it is \_OK\_ to use a downgraded service in an
 * upgraded component that is only used\`n * from a downgraded Angular component provided by the same Angular
 * module as the injectable, but\`n * it is \_not\_ OK to use it in an AngularJS component that may be used
 * independently of Angular\`n * use it in a downgraded Angular component from a different module.\`n * </div>

```
nodes. But Angular\n
// removes all text content after the first interpolation and updates it later, after\n
//
evaluating the expressions. This would result in AngularJS failing to recognize text\n
// nodes that start with an
interpolation as transcluded content and use the fallback\n
// content instead.\n
// To avoid this issue, we add
a\n
// [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n
// to empty
text nodes (which can only be a result of Angular removing their initial content).\n
// NOTE: Transcluded text
content that starts with whitespace followed by an interpolation\n
//
will still fail to be detected by AngularJS
v1.6+\n
$template.forEach(node => {\n
if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
{\n
node.nodeValue = '\\u200C';\n
}\n
});\n }\n\n return attachChildrenFn;\n }\n\n
resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {\n const directiveRequire =
this.getDirectiveRequire();\n const requiredControllers = this.resolveRequire(directiveRequire);\n\n if
(controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {\n
const
requiredControllersMap = requiredControllers as{[key: string]: IControllerInstance};\n
Object.keys(requiredControllersMap).forEach(key => {\n
controllerInstance[key] =
requiredControllersMap[key];\n
});\n }\n\n return requiredControllers;\n }\n\n private compileHtml(html:
string): ILinkFn {\n this.element.innerHTML = html;\n return this.$compile(this.element.childNodes);\n }\n\n
private extractChildNodes(): Node[] {\n const childNodes: Node[] = [];\n let childNode: Node|null;\n\n while
(childNode = this.element.firstChild) {\n
this.element.removeChild(childNode);\n
childNodes.push(childNode);\n }\n\n return childNodes;\n }\n\n private getDirectiveRequire():
DirectiveRequireProperty {\n const require = this.directive.require || (this.directive.controller &&
this.directive.name) !;\n\n if (isMap(require)) {\n
Object.keys(require).forEach(key => {\n
const value =
require[key];\n
const match = value.match(REQUIRE_PREFIX_RE) !;\n
const name =
value.substring(match[0].length);\n\n
if (!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n\n return require;\n }\n\n private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
any):\n SingleOrListOrMap<IControllerInstance>|null {\n if (!require) {\n
return null;\n } else if
(Array.isArray(require)) {\n
return require.map(req => this.resolveRequire(req));\n } else if (typeof require
=== 'object') {\n
const value: {[key: string]: IControllerInstance} = {};\n
Object.keys(require).forEach(key =>
value[key] = this.resolveRequire(require[key]) !);\n
return value;\n } else if (typeof require === 'string') {\n
const match = require.match(REQUIRE_PREFIX_RE) !;\n
const inheritType = match[1] || match[3];\n\n
const name = require.substring(match[0].length);\n
const isOptional = !!match[2];\n
const searchParents =
!!inheritType;\n
const startOnParent = inheritType === '^^';\n\n
const ctrlKey = controllerKey(name);\n
const elem = startOnParent ? this.$element.parent !() : this.$element;\n
const value = searchParents ?
elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n\n
if (!value && !isOptional) {\n
throw new Error(\n
`Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n
}\n\n
return value;\n }
else {\n
throw new Error(\n
`Unrecognized 'require' syntax on upgraded directive '${this.name}':
${require}`);\n }\n }\n}\n\nfunction getOrCall<T>(property: T | Function, ...args: any[]): T {\n return
isFunction(property) ? property(...args) : property;\n}\n\n// NOTE: Only works for `typeof T !== 'object'`.\nfunction
isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {\n return value && !Array.isArray(value)
&& typeof value === 'object';\n}\n\nfunction notSupported(name: string, feature: string) {\n throw new
Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);\n}\n","/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive, DoCheck, ElementRef,
EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from
'@angular/core';\n\nimport {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope,
ITranscludeFunction} from '../../common/src/angular1';\nimport {$SCOPE} from
'../../common/src/constants';\nimport {IBindingDestination, IControllerInstance, UpgradeHelper} from
'../../common/src/upgrade_helper';\nimport {isFunction, strictEquals} from '../../common/src/util';\n\n\nconst
CAMEL_CASE = /([A-Z])/g;\nconst INITIAL_VALUE = {\n __UNINITIALIZED__: true\n};\nconst
NOT_SUPPORTED: any = 'NOT_SUPPORTED';\n\n\nexport class UpgradeNg1ComponentAdapterBuilder {\n //

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TODO(issue/24571): remove '!'.

```typescript
inputs: string[] = []; inputsRename: string[] = []; outputs: string[] = []; outputsRename: string[] = []; propertyOutputs: string[] = []; checkProperties: string[] = []; propertyMap: {[name: string]: string} = {}; directive: IDirective|null = null; // TODO(issue/24571): remove '!' in template

constructor(public name: string) {
  const selector = name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());

  // TODO(tbosch): find or file a bug against TypeScript for this.
  const directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename, propertyOutputs, checkProperties, propertyMap} as any
  const context = (this.directive ? this.directive.bindToController : this.directive ? this.directive.scope) ?? (Object.keys(context).length) ?? throw new Error('Binding definitions on scope and controller at the same time are not supported.');

  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);
      const bindingOptions = definition.charAt(1);
      const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

      switch (bindingType) {
        case '@':
          case '<':
            this.inputs.push(attrName);
            this.inputsRename.push(attrName);
            this.propertyMap[attrName] = propName;
            break;
        case '=':
          this.inputs.push(attrName);
          this.inputsRename.push(attrName);
          this.propertyMap[attrName] = propName;
          this.outputs.push(attrName);
          this.outputsRename.push(attrName + 'Change');
          this.propertyMap[attrName] = propName;
          this.checkProperties.push(propName);
          this.propertyOutputs.push(attrName);
          break;
        case '&':
          this.outputs.push(attrName);
          this.outputsRename.push(attrName);
          this.propertyMap[attrName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error('Unexpected mapping $\{bindingType\}' + json in '${json}' in '$\{name\}' in '$\{directive\}' in '$\{json\}' in '$\{name\}' in '$\{directive\}' in '$\{json\}' in '$\{directive\}' in '$\{json\}' in '$\{directive\}' in '$\{json\}');
          break;
      }
    });
  }
}
```
inputs.length; i++) {
  (this as any)[inputs[i]] = null; 
}

for (let j = 0; j < outputs.length; j++) {
  (this as any)[outputs[j]] = null;
}

if (this.propOuts.indexOf(outputs[j]) === -1) {
  this.setComponentProperty(outputs[j], (emitter: EventEmitter<any>) => {
    emitter.emit(value);
  });
}

for (let k = 0; k < propOuts.length; k++) {
  this.checkLastValues.push(INITIAL_VALUE);
}

this.ngOnInit() {
  // Collect contents, insert and compile template
  const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
  const linkFn = this.helper.compileTemplate(this.template);

  // Instantiate controller (if not already done so)
  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;
  if (controllerType & bindToController) {
    this.controllerInstance = this.helper.buildController(controllerType,
      this.componentScope);
  }

  // Linking
  const preLink = typeof link == 'object' && link.pre;
  const postLink = typeof link == 'object' ? link.post : link;
  const attrs: IAttributes = NOT_SUPPORTED;
  const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
  if (preLink) {
    preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }

  linkFn(this.componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});

  if (postLink) {
    postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }

  // Hook: $postLink
  if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }

  this.ngOnChanges(changes: SimpleChanges) {
    const ng1Changes: any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
      this.destinationObj.$onChanges(ng1Changes);
    }

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
      this.controllerInstance.$doCheck();
    }

    if (this.controllerInstance && isFunction(this.controllerInstance.$onDestroy)) {
      this.controllerInstance.$onDestroy();
    }
  }

  this.ngDoCheck() {
    const destinationObj = this.destinationObj;
    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propOuts;
    checkProperties.forEach((propName, i) => {
      const value = destinationObj[propName];
      const last = lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
      this.controllerInstance.$doCheck();
    }
  }

  this.ngOnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance); }

  this.getComponentProperty(name: string, value: any) {
    this.destinationObj[this.propertyMap[name]] = value;
  }
}

/**
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {platformBrowserDynamic} from '@angular/platform-browser-dynamic';

import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../common/src/angular1';
import {$$TESTABILITY, $COMPILE, $INJECTOR, $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY, UPGRADE_APP_TYPE_KEY} from '../../common/src/constants';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from '../../common/src/util';
import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS
 * and Angular to coexist in a single application.
 * (See [UpgradeAdapter#upgradeNg1Component()])
 * 1. creation of Angular
 * component from AngularJS
 * component directive
 * (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of AngularJS
directive from Angular component.
 */

// const attachChildNodes: ILinkFn = this.helper.prepareTransclusion(); const linkFn = this.helper.compileTemplate(this.template);

// Instantiate controller (if not already done so)
const controllerType = this.directive.controller;
const bindToController = this.directive.bindToController;
if (controllerType & bindToController) {
  this.controllerInstance = this.helper.buildController(controllerType,
    this.componentScope);
}

// Linking
const preLink = typeof link == 'object' && link.pre;
const postLink = typeof link == 'object' ? link.post : link;
const attrs: IAttributes = NOT_SUPPORTED;
const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
if (preLink) {
  preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}

linkFn(this.componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});

if (postLink) {
  postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}

// Hook: $postLink
if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
  this.controllerInstance.$postLink();
}

this.ngOnChanges(changes: SimpleChanges) {
  const ng1Changes: any = {};
  Object.keys(changes).forEach(name => {
    const change: SimpleChange = changes[name];
    this.setComponentProperty(name, change.currentValue);
    ng1Changes[this.propertyMap[name]] = change;
  });

  if (isFunction(this.destinationObj.$onChanges)) {
    this.destinationObj.$onChanges(ng1Changes);
  }

  if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
    this.controllerInstance.$doCheck();
  }

  this.ngDoCheck() {
    const destinationObj = this.destinationObj;
    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propOuts;
    checkProperties.forEach((propName, i) => {
      const value = destinationObj[propName];
      const last = lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$onDestroy)) {
      this.controllerInstance.$onDestroy();
    }
  }

  this.ngOnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance); }

  this.getComponentProperty(name: string, value: any) {
    this.destinationObj[this.propertyMap[name]] = value;
  }
}
contains both of the frameworks\* * coexisting in a single application.\* * @usageNotes\* * >>> Mental Model\* * When reasoning about how a hybrid application works it is useful to have a mental model which\* * describes what is happening and explains what is happening at the lowest level.\* * 1. There are two independent frameworks running in a single application, each framework treats\* * the other as a black box.\* * 2. Each DOM element on the page is owned exactly by one framework. Whichever framework\* * instantiated the element is the owner. Each framework only updates/interacts with its own\* * DOM elements and ignores others.\* * AngularJS directives always execute inside AngularJS framework codebase regardless of\* * where they are instantiated.\* * 4. Angular components always execute inside Angular framework codebase regardless of\* * where they are instantiated.\* * 5. An AngularJS component can be upgraded to an Angular component. This creates an\* * Angular directive, which bootstraps the AngularJS component directive in that location.\* * 6. An Angular component can be downgraded to an AngularJS component directive. This creates an\* * an AngularJS directive, which bootstraps the Angular component in that location.\* * Whenever an adapter component is instantiated the host element is owned by the framework\* * doing the instantiation. The other framework then instantiates and owns the view for that\* * component. This implies that component bindings will always follow the semantics of the\* * instantiation framework. The syntax is always that of Angular syntax.\* * AngularJS is always bootstrapped first and owns the bottom most view.\* * 9. The new application is running in Angular zone, and therefore it no longer needs calls to the\* * Sapien framework.\* * ```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));
module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}](!)[<span ng-transclude</span>]\n  };
});

template = ['ng2-comp name="World">project</ng2-comp>\n  ;\n  adapter.bootstrap(document.body, ['myExample']).ready(function() {
    expect(document.body.textContent).toEqual(' '<ng2-comp name="World">project</ng2-comp>' );
  });
```

@deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\* "Ahead-of-\* * Time compilation\* * @publicApi
*/
export class UpgradeAdapter {
  private idPrefix: string = `NG2_UPGRADE_${upgradeCount++}_`;
  private downgradedComponents: Type<any>[] = [];
  private ng1ComponentsToBeUpgraded: { [name: string]: UpgradeNg1ComponentAdapterBuilder } = {};
  private upgradedProviders: StaticProvider[] = [];
  // TODO(issue/24571): remove '!'.
  private ng2BootstrapDeferred!: Deferred<IInjectorService>;
  constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {
    if (!ng2AppModule) {
      throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');
    }
  }

  private bootstrap(document.body, ['myExample']).ready(function() {
    expect(document.body.textContent).toEqual('
      \n      \n      \n      ;

      private downgradedComponents: Type<any>[] = [];

      An internal map of ng1 components which need to up upgraded to ng2.\n
      We can't upgrade until injector is instantiated and we can retrieve the component metadata.\n      For this reason we keep a list of components to upgrade until ng1 injector is bootstrapped.\n
      * @internal\n      * private ng1ComponentsToBeUpgraded: { [name: string]: UpgradeNg1ComponentAdapterBuilder } = [];
      *

      private get ng2BootstrapDeferred(): Deferred<IInjectorService>\n      {
        return new Deferred<IInjectorService>.
      }
  

  private constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {\n    if (!ng2AppModule) {\n      throw new Error(\n        'UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');\n    }
  }

  private bootstrap(document.body, ['myExample']).ready(function() {
    expect(document.body.textContent).toEqual(' '<ng2-comp name="World">project</ng2-comp>' );
  });
```
'ControlValueAccessor' interface from @angular/forms. Only components that implement this interface are eligible. *un * ### Supported Features
  *un * + bindings: *un * - attribute: '<comp name="World">'
  *un * - interpolation: '<comp greeting="Hello {{name}}">'
  *un * - event: '<comp (close)="doSomething()">'
  *un * - ng-model: '<comp ng-model="name">'
  *un * - content projection: yes
  *un * ### example
  *un * ```
  *un * const adapter = new UpgradeAdapter(forwardRef(() =>
    MyNg2Module));
  *un * const module = angular.module('myExample', []);
  *un * module.directive('greet',
    adapter downgradeNg2Component(Greeter));
  *un * @Component({
  *un *   selector: 'greet',
  *un *   templateUrl: '<greet salutation="Hello" [name]="world">text</greet>'
  *un * })
  *un * class Greeter {
  *un *   @Input() salutation: string;
  *un *   @Input() name: string;
  *un *   constructor(private adapter: UpgradeAdapter, private
    Greeter) {
  *un *     this.greeter = this.adapter.upgradeNg1Component(Greeter);
  *un *     this.downgradedComponents.push(greeter);
  *un *   }
  *un *   @HostListener('click') clickThis() {
  *un *     expect(this.greeter).toEqual({
  *un *       templateUrl: '<greet salutation="Hello" [name]="world">text</greet>'
  *un *     });
  *un *   }
  *un * }
  *un * @NgModule({
  *un *   declarations: [Greeter],
  *un *   imports: [BrowserModule]
  *un * })
  *un * class MyNg2Module {
  *un *   constructor(private adapter: UpgradeAdapter) {
  *un *     this.adapter.upgradeNg1Component(Greeter); this
  *un *       .downgradedComponents.push(greeter);
  *un *   }
  *un *   bootstrap(document.body, [MyNg2Module]);
  *un *   document.body.innerHTML = '<greet salutation="Hello" [name]="world">text</greet>'
  *un *   .then(() => {
  *un *     expect(document.body.textContent).toEqual("Hello world!");
  *un *   });
  *un * }
  *un * ```
  *un * 

  *un * ```
  *un * const module = angular.module('myExample', []);
  *un * module.directive('greet',
    adapter downgradeNg2Component(Greeter));
  *un * @Component({
  *un *   selector: 'greet',
  *un *   templateUrl: '<greet salutation="Hello" [name]="world">text</greet>'
  *un * })
  *un * class Greeter {
  *un *   @Input() salutation: string;
  *un *   @Input() name: string;
  *un *   constructor(private adapter: UpgradeAdapter, private
    Greeter) {
  *un *     this.greeter = this.adapter.upgradeNg1Component(Greeter);
  *un *     this.downgradedComponents.push(greeter);
  *un *   }
  *un *   @HostListener('click') clickThis() {
  *un *     expect(this.greeter).toEqual({
  *un *       templateUrl: '<greet salutation="Hello" [name]="world">text</greet>'
  *un *     });
  *un *   }
  *un * }
  *un * @NgModule({
  *un *   declarations: [Greeter],
  *un *   imports: [BrowserModule]
  *un * })
  *un * class MyNg2Module {
  *un *   constructor(private adapter: UpgradeAdapter) {
  *un *     this.adapter.upgradeNg1Component(Greeter); this
  *un *       .downgradedComponents.push(greeter);
  *un *   }
  *un *   bootstrap(document.body, [MyNg2Module]);
  *un *   document.body.innerHTML = '<greet salutation="Hello" [name]="world">text</greet>'
  *un *   .then(() => {
  *un *     expect(document.body.textContent).toEqual("Hello world!");
  *un *   });
  *un * }
  *un * ```
the adapter before any calls to `inject()

```typescript

the adapter before any calls to `inject()

```
any})

Example

const token = options && options.asToken || name;
this.upgradedProviders.push({
  provide: token,
  useFactory: (InjectorService) => InjectorService.get(name),
  deps: [SINJECTOR]
});

/**
 * Allows Angular service to be accessible from AngularJS.
 *
 * @usageNotes
 * ### Example
 *
 * ```
 * class Example {
 * }
 *
 * const adapter = new UpgradeAdapter(MyNg2Module);
 *
 * const module = angular.module('myExample', []);
 *
 * module.factory('example', () => adapter.downgradeNg2Provider(Example));
 *
 * adapter.bootstrap(document.body, ['myExample']).then(() => {
 *   const example: Example = adapter.upgradeNg2Provider(token: any): Function {
 *     return downgradeInjectable(token);
 *   }
 * });
 *
 * adapter.upgradeAndDestroyApp();
 *
 * adapter.upgradeNg2Provider(token: any):
 *   const adapter = new UpgradeAdapter(MyNg2Module);
 *   const module = angular.module('myExample', []);
 *   module.factory('example', () => adapter.downgradeNg2Provider(Example));
 *   adapter.bootstrap(document.body, ['myExample']).then(() => {
 *     const example: Example = adapter.upgradeNg2Provider(token: any):
 *     return downgradeInjectable(token);
 *   });
 *
 * adapter.upgradeAndDestroyApp();
 */
upgraded, we now can bootstrap ng2.

```typescript
DynamicNgUpgradeModule |
constructor() {}
ngDoBootstrap |
class
platformRef
.bootModule
DynamicNgUpgradeModule, [this.compilerOptions !,
{ngZone: this.ngZone}]
.then(ref: NgModuleRef<any> =>
this.moduleRef = ref;
this.ngZone.run() =>
if (rootScopePrototype.$apply = original$applyFn; // restore original $apply
while
(delayApplyExp.length)
rootScopePrototype.$apply = original$applyFn; // restore original $apply

return rootScope.$digest();
```

return ng1Injector;
```typescript
/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn &&
    this._readyFn(this);

  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application has been bootstrapped.
   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
    this._readyFn = fn;

  }

  /**
   * Dispose of running hybrid AngularJS / Angular application.
   */
  public dispose() {
    this.ng1Injector!.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef!.destroy();
  }
}
```

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

// This file is not used to build this module. It is only used during editing
// by the TypeScript language service and during build for verification. `ngc`
// replaces this file with production index.ts
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/fesm5/upgrade.js.map

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

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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/static/testing.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/upgrade.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/static.d.ts
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing/testing.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static/testing.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static/testing.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/static.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/upgrade.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/upgrade.js

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

{"version":3,"file":"upgrade.js","sources":
}
ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */ | ignoreRequestError?: boolean): Promise<string>;
}

ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean):
  Promise<string>;
  totalPendingRequests: number;
}

export type IController = string | IInjectable;

export interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $commitViewValue(): void;
  $parsers: Function[];
  $formatters: Function[];
  $validators: { [key: string]: Function };
  $asyncValidators: { [key: string]: Function };
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig): IInjectorService,
  module: (prefix: string, dependencies?: string[]): IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList): void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean): IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element): ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily,
 * and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

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 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST =...
export const COMPILER_KEY = '\$$angularCompiler';

export const DOWNGRADED_MODULE_COUNT_KEY = '\$$angularDowngradedModuleCount';

export const GROUP_PROJECTABLE_NODES_KEY = '\$$angularGroupProjectableNodes';

export const INJECTOR_KEY = '\$$angularInjector';

export const LAZY_MODULE_REF = '\$$angularLazyModuleRef';

export const NG_ZONE_KEY = '\$$angularNgZone';

export const REQUIRE_INJECTOR = '?\$$injector';

export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_APP_TYPE_KEY = '\$$UpgradeAppType';

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/**
 * A `PropertyBinding` represents a mapping between a property name and an attribute name.
 * It is parsed from a string of the form `\"prop:attr\"`; or simply `\"propAndAttr\"` where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[\${this.attr}\]`;
    this.parenAttr = `\(${this.attr}\)`;
    this.bracketParenAttr = `\[\(${this.attr}\)\]`;
    this.attr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on\${capitalAttr}`;
    this.bindAttr = `bind\${capitalAttr}`;
    this.bindonAttr = `bindon\${capitalAttr}`;
  }
}

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 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):[\-_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /:[\-_]+(.)/g;

export function onError(e: any) {
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '\$$\' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n') [0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
                                                      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
  UpgradeAppType.None;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
  UpgradeAppType.None;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
  UpgradeAppType.None;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
  UpgradeAppType.None;
}
module, thus you need to ' +\n
'always specify \\'downgradedModule\\' when downgrading components and
injectables.');\n
}\n\n
if (!$injector.has(injectionKey)) {\n
throw new Error(\n
`Error while
${attemptedAction}: Unable to find the specified downgraded module.\\n` +\n
'Did you forget to downgrade
an Angular module or include it in the AngularJS ' +\n
'application?');\n
}\n\n
break;\n default:\n
throw new Error(\n
`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.\\n` +\n
'Did you forget to downgrade an Angular module or include it in the AngularJS ' +\n
'application?');\n
}\n}\n\nexport class Deferred<R> {\n promise: Promise<R>;\n // TODO(issue/24571): remove '!'.\n resolve !:
(value?: R | PromiseLike<R>) => void;\n // TODO(issue/24571): remove '!'.\n reject !: (error?: any) => void;\n\n
constructor() {\n this.promise = new Promise((res, rej) => {\n
this.resolve = res;\n
this.reject = rej;\n });\n
}\n}\n\nexport interface LazyModuleRef {\n injector?: Injector;\n promise?: Promise<Injector>;\n}\n\nexport
const enum UpgradeAppType {\n // App NOT using `@angular/upgrade`. (This should never happen in an
`ngUpgrade` app.)\n None,\n\n // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
`ngUpgrade`).\n Dynamic,\n\n // App using `@angular/upgrade/static` with `UpgradeModule`.\n Static,\n\n // App
using @angular/upgrade/static` with `downgradeModule()` (a.k.a `ngUpgrade`-lite ).\n Lite,\n}\n\n/**\n * @return
Whether the passed-in component implements the subset of the\n * `ControlValueAccessor` interface needed for
AngularJS `ng-model`\n * compatibility.\n */\nfunction supportsNgModel(component: any) {\n return typeof
component.writeValue === 'function' &&\n
typeof component.registerOnChange === 'function';\n}\n\n/**\n *
Glue the AngularJS `NgModelController` (if it exists) to the component\n * (if it implements the needed subset of
the `ControlValueAccessor` interface).\n */\nexport function hookupNgModel(ngModel: INgModelController,
component: any) {\n if (ngModel && supportsNgModel(component)) {\n ngModel.$render = () => {
component.writeValue(ngModel.$viewValue); };\n
component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n if (typeof
component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n }\n }\n}\n\n/**\n * Test two values for
strict equality, accounting for the fact that `NaN !== NaN`.\n */\nexport function strictEquals(val1: any, val2: any):
boolean {\n return val1 === val2 || (val1 !== val1 && val2 !== val2);\n}\n","/**\n * @license\n * Copyright
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found in the LICENSE file at https://angular.io/license\n */\n\nimport {ApplicationRef, ChangeDetectorRef,
ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';\n\nimport {IAttributes,
IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from
'./angular1';\nimport {PropertyBinding} from './component_info';\nimport {$SCOPE} from './constants';\nimport
{getTypeName, hookupNgModel, strictEquals} from './util';\n\nconst INITIAL_VALUE = {\n
__UNINITIALIZED__: true\n};\n\nexport class DowngradeComponentAdapter {\n private implementsOnChanges
= false;\n private inputChangeCount: number = 0;\n private inputChanges: SimpleChanges = {};\n private
componentScope: IScope;\n // TODO(issue/24571): remove '!'.\n private componentRef !: ComponentRef<any>;\n
private component: any;\n // TODO(issue/24571): remove '!'.\n private changeDetector !: ChangeDetectorRef;\n //
TODO(issue/24571): remove '!'.\n private viewChangeDetector !: ChangeDetectorRef;\n\n constructor(\n
private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,\n
private ngModel:
INgModelController, private parentInjector: Injector,\n
private $injector: IInjectorService, private $compile:
ICompileService,\n
private $parse: IParseService, private componentFactory: ComponentFactory<any>,\n
private wrapCallback: <T>(cb: () => T) => () => T) {\n this.componentScope = scope.$new();\n }\n\n
compileContents(): Node[][] {\n const compiledProjectableNodes: Node[][] = [];\n const projectableNodes:
Node[][] = this.groupProjectableNodes();\n const linkFns = projectableNodes.map(nodes =>
this.$compile(nodes));\n\n this.element.empty !();\n\n linkFns.forEach(linkFn => {\n
linkFn(this.scope,
(clone: Node[]) => {\n
compiledProjectableNodes.push(clone);\n
this.element.append !(clone);\n
});\n
});\n\n return compiledProjectableNodes;\n }\n\n createComponent(projectableNodes: Node[][]) {\n const
providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];\n const childInjector =

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Injector.create({
  providers: providers, parent: this.parentInjector, name:
  'DowngradeComponentAdapter'});

this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);

this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
this.changeDetector = this.componentRef.changeDetectorRef;
this.component = this.componentRef.instance;

// testability hook is commonly added during component bootstrap in
// packages/core/src/application_ref.bootstrap()
// in downgraded application, component creation will take place here as well as adding the
// testability hook.
this.componentTestability = this.componentRef.injector.get(Testability, null);
if (this.componentTestability) {
  this.componentRef.injector.get(TestabilityRegistry)
    .registerApplication(this.componentRef.location.nativeElement, this.componentTestability);
}

hookupNgModel(this.ngModel, this.component);

let testability;

if (this.componentTestability) {
  testability = this.componentRef.injector.get(Testability, null);
}

this.viewChangeDetector.markForCheck();

if (testability) {
  this.viewChangeDetector.markForCheck();
}

const testability = this.componentRef.injector.get(Testability, null);
if (testability) {
  this.componentRef.injector.get(TestabilityRegistry)
    .registerApplication(this.componentRef.location.nativeElement, testability);
}

setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
  void { const attr = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string = null;
      if (this.componentRef.injector.get(Inputs)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            if (prevValue !== currValue) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
        expr = this.updateInput(prop, prevValue, currValue);
        if (expr != null) {
          const watchFn =
            (prop => (currValue: any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
          this.componentScope.$watch(expr, watchFn);
        }
      }
      if (expr != null) {
        expr = exprILON
e
      }
    }
    this.viewChangeDetector.markForCheck();
    if (this.componentTestability) {
      this.viewChangeDetector.markForCheck();
    }
}

let testability = this.componentRef.injector.get(Testability, null);
if (testability) {
  testability = this.componentRef.injector.get(TestabilityRegistry)
    .registerApplication(this.componentRef.location.nativeElement, testability);
}

setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    void { const attr = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string = null;
      if (this.componentRef.injector.get(Inputs)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both '$observe()' and '$watch()' will call this function:
            if (!strictEquals(prevValue, currValue)) {
              this.updateInput(prop, prevValue, currValue);
            } else if (input.of(observeFn)) {
              this.updateInput(prop, prevValue, currValue);
            }
          };
        })(input.prop);
        expr = this.updateInput(prop, prevValue, currValue);
        if (expr != null) {
          const watchFn =
            (prop => (currValue: any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
          this.componentScope.$watch(expr, watchFn);
        }
      }
      if (expr != null) {
        expr = exprILON
e
      }
    }
    this.viewChangeDetector.markForCheck();
    if (this.componentTestability) {
      this.viewChangeDetector.markForCheck();
    }
}

let testability = this.componentRef.injector.get(Testability, null);
if (testability) {
  testability = this.componentRef.injector.get(TestabilityRegistry)
    .registerApplication(this.componentRef.location.nativeElement, testability);
}

setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    void { const attr = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string = null;
      if (this.componentRef.injector.get(Inputs)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both '$observe()' and '$watch()' will call this function:
            if (!strictEquals(prevValue, currValue)) {
              this.updateInput(prop, prevValue, currValue);
            } else if (input.of(observeFn)) {
              this.updateInput(prop, prevValue, currValue);
            }
          };
        })(input.prop);
        expr = this.updateInput(prop, prevValue, currValue);
        if (expr != null) {
          const watchFn =
            (prop => (currValue: any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
          this.componentScope.$watch(expr, watchFn);
        }
      }
      if (expr != null) {
        expr = exprILON
e
      }
    }
    this.viewChangeDetector.markForCheck();
    if (this.componentTestability) {
      this.viewChangeDetector.markForCheck();
    }
}

let testability = this.componentRef.injector.get(Testability, null);
if (testability) {
  testability = this.componentRef.injector.get(TestabilityRegistry)
    .registerApplication(this.componentRef.location.nativeElement, testability);
}

setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    void { const attr = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string = null;
      if (this.componentRef.injector.get(Inputs)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both '$observe()' and '$watch()' will call this function:
            if (!strictEquals(prevValue, currValue)) {
              this.updateInput(prop, prevValue, currValue);
            } else if (input.of(observeFn)) {
              this.updateInput(prop, prevValue, currValue);
            }
          };
        })(input.prop);
        expr = this.updateInput(prop, prevValue, currValue);
        if (expr != null) {
          const watchFn =
            (prop => (currValue: any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
          this.componentScope.$watch(expr, watchFn);
        }
      }
      if (expr != null) {
        expr = exprILON
e
      }
    }
    this.viewChangeDetector.markForCheck();
    if (this.componentTestability) {
      this.viewChangeDetector.markForCheck();
    }
}

let testability = this.componentRef.injector.get(Testability, null);
if (testability) {
  testability = this.componentRef.injector.get(TestabilityRegistry)
    .registerApplication(this.componentRef.location.nativeElement, testability);
}
first update bindings then evaluate expressions
if (attrs.hasOwnProperty(bindonAttr)) {
  this.subscribeToOutput(output, attrs[bindonAttr], true);
}
if (attrs.hasOwnProperty(bracketParenAttr)) {
  this.subscribeToOutput(output, attrs[bracketParenAttr], true);
}
if (attrs.hasOwnProperty(output.onAttr)) {
  this.subscribeToOutput(output, attrs[output.onAttr]);
}
if (attrs.hasOwnProperty(output.parenAttr)) {
  this.subscribeToOutput(output, attrs[output.parenAttr]);
}
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter(this.scope, v) :
                             (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component`);
  }
}

registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;
  this.element.on('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });
}

getInjector(): Injector { return this.componentRef.injector; }

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }

  this.inputChangeCount++;
  this.component[prop] = currValue;
}

groupProjectableNodes() {
  let ngContentSelectors = this.componentFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents !());
}

/**
 * Group a set of DOM nodes into ‘ngContent’ groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [[], ...nodes.map(node => [node])];
  let wildcardNgContentIndex: number; = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(node, selector)) {
        projectableNodes[i].push(node);
      }
    }
  }
  return projectableNodes;
}

function matchesSelector(element: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||
        elProto.msMatchesSelector || elProto.webkitMatchesSelector;
  }
  return element.nodeType === Node.ELEMENT_NODE ? _matches.call(element, selector) : false;
}

/**
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 * the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();
    let resolvedCount = 0;
    const results: T[] = [];
    valuesOrPromises.forEach((p, idx) => {
      p.then((v: T) => {
        results[idx] = v;
        if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
      });
    });
    return aggrPromise;
  }

  resolve(...values: T[]): void {
    if (this.value !== undefined) {
      throw new Error(`SyncPromise already resolved!`);
    }
    this.value = values;
    this.callbacks.forEach((cb) => cb(values));
  }

  catch(callback: (err: Error) => any): SyncPromise<T> {
    return new SyncPromise<T>() {
      resolve(...values: T[]): void {
        this.value = values;
        this.callbacks.forEach((cb) => cb(values));
      }
    };
  }

  then(callback: (value: T) => any): Thenable<T> {
    if (this.resolved) {
      return isThenable(this.value) ? this.value.then(callback) : callback(this.value);
    }
    return new SyncPromise<T>() {
      resolve(...values: T[]): void {
        this.value = values;
        this.callbacks.forEach((cb) => cb(values));
      }
    };
  }
}

const _testabilityReg = this.componentRef.injector.get(TestabilityRegistry);
const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
let destroyed = false;
this.componentScope.$destroy();
this.componentScope.$on('$destroy', () => {
  if (!destroyed) {
    destroyed = true;
    _testabilityReg.unregisterApplication(this.componentRef.location.nativeElement);
    destroyComponentRef();
  }
});

getInjector(): Injector { return this.componentRef.injector; }

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }

  this.inputChangeCount++;
  this.component[prop] = currValue;
}

groupProjectableNodes() {
  let ngContentSelectors = this.componentFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents !());
}

/**
 * Group a set of DOM nodes into ‘ngContent’ groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [[], ...nodes.map(node => [node])];
  let wildcardNgContentIndex: number; = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(node, selector)) {
        projectableNodes[i].push(node);
      }
    }
  }
  return projectableNodes;
}

function matchesSelector(element: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||
        elProto.msMatchesSelector || elProto.webkitMatchesSelector;
  }
  return element.nodeType === Node.ELEMENT_NODE ? _matches.call(element, selector) : false;
}
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```typescript

(isThenable(p)) {
  p.then(v => resolve(idx, v));
} else {
  resolve(idx, p);
}

return aggrPromise;

this.value = value;
this.resolved = true;

Run the queued callbacks.
this.callsbacks.forEach(callback => callback(value));
this.callsbacks.length = 0;
then(callback => resolve(idx, v));
else {
  resolve(idx, p);
}

return aggrPromise;

if (this.resolved) {
  if (this.value) {
    resolve(idx, this.value);
  } else {
    resolve(idx, p);
  }
}

return this.callbacks.push(callback);

*/

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import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';
import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';
import {SyncPromise, Thenable} from './promise_util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation
 *
 * This helper function returns a factory function to be used for registering AngularJS components inside
 AngularJS templates. It is used to define the AngularJS directive that wraps the Angular component.

 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in
 * AngularJS templates.

 * ```
 * {
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes"
 * ```
 *
 * We must create an AngularJS [directive](https://docs.angularjs.org/api/directive) that makes this Angular component available inside
 AngularJS templates. The `downgradeComponent()` function returns a factory function that we can use to define
 * the AngularJS directive that wraps the Angular component.

 * ```
 * {
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"
 * ```
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

 * @param info contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that will be downgraded
 * - `downgradedModule?: string`: The name of the downgraded module (if any) that the component "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated. If set to `false`, the component will be downgraded to the default Angular module. (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular component.)
 * - `propagateDigest?: boolean`: Whether to perform [change detection](https://angular.io/docs/ts/latest/api/core/ChangeDetectorRef-class.html) on the component on every change detection
 * - 

 * @returns a factory function that can be used to register the component in an AngularJS module.

 * @publicApi
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory:
    IAnnotatedFunction = function($compile: ICompileService, $injector: IInjectorService, $parse: IParseService):
    IDirective {
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run in the Angular zone (except if explicitly escaped, in which case we shouldn't force it back in).
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    return
```
wrapCallback: <T>(cb: () => T) => typeof cb =In !isNgUpgradeLite ? cb => cb : cb => () =>
NgZone.isInAngularZone() ? cb : NgZone.run(cb);` let ngZone: NgZone;`\n` // When downgrading multiple
modules, special handling is needed wrt injectors.```\n` const hasMultipleDowngradedModules =\nisNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);`\n` return `{\n` restrict: `E,`\n` terminal: `true,`\n` require: `[REQUIRE_INJECTOR, REQUIRE_NG_MODEL],&`\n` link: `: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => `\n` // We might have to compile the contents
asynchronously, because this might have been
` \n` triggered by `UpgradeNg1ComponentAdapterBuilder`,
before the Angular templates have`\n` // been compiled.`\n` const ngModel: INgModelController =
required[1];`\n` const parentInjector: Injector|Thenable<Injector>|undefined = required[0];`\n` let
moduleInjector: Injector|Thenable<Injector>|undefined = undefined;`\n` let ranAsync = false;`\n` if
(!parentInjector || hasMultipleDowngradedModules) {
` const downgradedModule = info.downgradedModule
` || `\n` const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
` const lens
validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);
`\n` const
lazyModuleRef: $injector.get(lazyModuleRefKey) as LazyModuleRef =
`\n` lazyModuleRef.injector as LazyModuleRef|injector;
`\n` lazyModuleRef.promise as Promise<Injector>\n`\n` \n` Notes:`\n` // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
` // the same instance,
` but that is irrelevant);`\n` // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be
` // on the same tree as the `NgModule` that declares this downgraded component.
` // -
` // `finalParentInjector` is used for all other injection purposes.```\n` // (Note that Angular knows to only traverse the
component-tree part of that injector, ```\n` // when looking for an injectable and then switch to the module
injector.)```\n` // There are basically three cases:

```
- If there is no parent component (thus no
  `parentInjector`), we bootstrap the downgraded
  `NgModule` and use its injector as both
  `finalModuleInjector` and `finalParentInjector`.
- If there is a parent component (and thus a
  `parentInjector`) and we are sure that it`
  belongs to the same `NgModule` as this downgraded component
  (e.g. because there is only
  one downgraded module, we use that `parentInjector` as both
  `finalModuleInjector` and `finalParentInjector`.
- If there is a parent component, but it may belong
to a different `NgModule`, then we`\n` // use the `parentInjector` as `finalParentInjector` and this downgraded component
` // declaring `NgModule`'s injector as `finalModuleInjector`.```\n``` Note 1: If the
` // `NgModule` is already bootstrapped, we just get its injector (we don't
` // bootstrap again).```\n` // Note 2: It is possible that (while there are multiple downgraded modules) this
` // downgraded component and its parent component both belong to the same
` // NgModule.```\n``` In that case, we could have used the
` // `parentInjector` as both
` // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are`\n` // treating this case as if they belong to different `NgModule`s. That doesn't
` // really affect
` anything, since `parentInjector` has `moduleInjector` as ancestor
` // and trying to resolve
``` `ComponentFactoryResolver` from either one will return
` // the same instance.```\n` // If there is a parent component, use its injector as parent injector.
` // If this is a `\n` // `top-level` Angular component, use the module
` // injector.
` const finalParentInjector = parentInjector || moduleInjector;`\n` // If this is a `\n` // `top-level` Angular component or the parent component may belong to a
` // different `NgModule`, use the module
` // injector for module-specific dependencies.
` // If there is a parent component that belongs to the same
` // `NgModule`, use its injector.
` const finalModuleInjector = moduleInjector || parentInjector;```\n``` const
doDowngrade = (injector: Injector, moduleInjector: Injector) => {```\n``` // Retrieve `ComponentFactoryResolver`
```
``` from the injector tied to the `NgModule` this
` // component belongs to.```\n``` const
componentFactoryResolver: ComponentFactoryResolver =```
``` moduleInjector.getComponentFactoryResolver();```\n``` const componentFactory: ComponentFactory<any> =```
``` componentFactoryResolver.resolveComponentFactory(info.component) as
```\n``` ComponentFactory
``` if (`componentFactory`) {
``` \n` throw new Error(`Expecting ComponentFactory for: `\n` `{getTypeName(info.component)}`);```\n` ```\n``` const injectorPromise = new ParentInjectorPromise(element);```\n``` const`
```javascript
DowngradeComponentAdapter(
  element, attrs, scope, ngModel, injector, Sinjector, Scompile, Sparse,
  componentFactory, wrapCallback);

facade.createComponent(projectableNodes);
facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

injectorPromise.resolve(facade.getInjector());

if (ranAsync) { // If this is run async, it is possible that it is not run inside an // digest and initial input values will not be detected. const scope.$evalAsync(() => {
  facade.doDowngrade:
  doDowngrade: (pInjector: Injector, mInjector: Injector) => {
    wrapCallback(() => doDowngrade(pInjector, mInjector))();
  };

  // If this is run async, it is possible that it is not run inside an // digest and initial input values will not be detected. const scope.$evalAsync(() => {
    // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...Src$downgrade_component_ParentInjectorPromise.all is not a function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    // NOTE: // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...Src$downgrade_component_ParentInjectorPromise.all is not a function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    // NOTE: // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...Src$downgrade_component_ParentInjectorPromise.all is not a function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    injectors.$inject = [$COMPILDE, $INJECTOR, $PARSE];
  return
directiveFactory;
}
```

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to register the service on an AngularJS module.

```typescript
function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
  const injector = Inspector.injectorKey;
  return injector.get(token);
}
```

```typescript
/**
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 */

import {ElementRef, Injector, SimpleChanges} from '@angular/core';

import {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';


// Constants
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,
      directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);

    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error(`Only support single directive definition for: ${name}`);
    }

    const directive = directives[0];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. If
    // (directive.compile &
    // !directive.link) notSupported(name, 'compile');
    // if (directive.replace) notSupported(name, 'replace');
    // if (directive.terminal) notSupported(name, 'terminal');
    // return directive;
    return !static getTemplate($injector, $element, name)
    ```
```
UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
}

return this.compileHtml(template);

onDestroy($scope: IScope, iScope, controllerInstance?: any) {
  if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
    controllerInstance.$onDestroy();
  }
  $scope.$destroy();

  // Clean the jQuery/jqLite data on the component+child elements.
  // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)

  UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
}

return this.compileHtml(template);
}

onDestroy($scope: IScope, controllerInstance?: any) {
  if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
    controllerInstance.$onDestroy();
  }
  $scope.$destroy();

  // Clean the jQuery/jqLite data on the component+child elements.
  // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)

  angularElement.cleanData(this.element.querySelectorAll('*'));
}

prepareTransclusion(): ILinkFn|undefined {
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();
  const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
    // Since AngularJS v1.5.8, `.cloneAttachFn` will try to destroy the transclusion scope if
    // `&template` is empty. Since the transcluded content comes from Angular, not AngularJS,
    // there will be no transclusion scope here.
    // Provide a dummy `scope.$destroy()` method
    // to prevent `.cloneAttachFn` from throwing.
    scope = scope || {
      $destroy: () => undefined;
    }
    // return cloneAttachFn(${template}, scope); $template = contentChildNodes
    // if (transclude) {
    //   const slots = Object.create(null);
    //   if (typeof transclude === 'object') {
    //     $template = [];
    //     const slotMap = Object.create(null);
    //     const filledSlots = Object.create(null);
    //     Object.keys(transclude).forEach(slotName => {
    //       const selector = transclude[slotName];
    //       const optional = selector.charAt(0) === '?';
    //       selector = optional ? selector.substring(1) : selector;
    //       slotMap[selector] = slotName;
    //       slots[slotName] = null;
    //       if (optional) {
    //         filledSlots[slotName] = false;
    //       }
    //       $template = contentChildNodes.forEach(node => {
    //         const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
    //         if (slotName) {
    //           filledSlots[slotName] = true;
    //           slots[slotName] = slots[slotName] || [];
    //           slots[slotName].push(node);
    //         } else {
    //           $template.push(node);
    //         }
    //       });
    //     // Add the matching elements into their slot.
    //     Object.keys(filledSlots).forEach(slotName => {
    //       if (!filledSlots[slotName]) {
    //         throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
    //       }
    //     });
    //     Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
    //       const nodes = slots[slotName];
    //       slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
    //         return cloneAttach(nodes, scope);
    //       };
    //     });
    //   } else {
    //     $template = Object.create(null);
    //   }
    // }
    // Check for required slots that were not filled.
    Object.keys(filledSlots).forEach(slotName => {
      if (!filledSlots[slotName]) {
        throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
      }
    });
    Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
      const nodes = slots[slotName];
      slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
        return cloneAttach(nodes, scope);
      };
    });
    // Attach `$$slots` to default slot transclude fn.
    attachChildrenFn.$$$slots = slots;
    // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
    // removes all text content after the first interpolation and updates it later, after
    // evaluating the expressions. This would result in AngularJS failing to recognize text
    // nodes that start with an interpolation as transcluded content and use the fallback
    // content instead. To avoid this issue, we add
    // to empty
text nodes (which can only be a result of Angular removing their initial content).
  } else {
    new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
  }
}

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire = this.getDirectiveRequire();
  const requiredControllers = this.resolveRequire(directiveRequire);

  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
    const requiredControllersMap = requiredControllers as {
      [key: string]: IControllerInstance;
    };

    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];
    });
  }
}

private compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);
}
private extractChildNodes(): Node[] {
    const childNodes: Node[] = [];
    let childNode: Node | null = null;
    while (childNode = this.element.firstChild)
        childNodes.push(childNode);
    return childNodes;
}

private getDirectiveRequire(): DirectiveRequireProperty {
    return this.directive.require || (this.directive.controller &&
        this.directive.name)!
}

private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
    any): SingleOrListOrMap<IControllerInstance>|null {
    if (isMap(require)) {
      require.forEach((value, key) => {
        const name = value.substring(match[0].length);
        if (!name) {
          require[key] = match[0] + key;
        }
      });
    } else if (typeof require === 'string') {
      const name = require.substring(match[0].length);
      const isOptional = !!match[2];
      const searchParents = !!inheritType;
      const elem = startOnParent ? this.$element.parentElement : this.$element;
      const value = searchParents ?
        elem.inheritedData!(ctrlKey) : elem.data!(ctrlKey);
      if (!value && !isOptional) {
        throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
      }
      return value;
    } else {
      throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':
        ${require}`).
    }
    return null;
}

private getDirectivePrePost(): DirectivePrePostProperty {
    return this.directive.prePost || (this.directive.controller &&
        this.directive.name)!
}

private getDirectivePublic(): DirectivePublicProperty {
    return this.directive.public || (this.directive.controller &&
        this.directive.name)!
}

private getDirectivePrivate(): DirectivePrivateProperty {
    return this.directive.private || (this.directive.controller &&
        this.directive.name)!
}

private getDirectiveOption(): DirectiveOptionProperty {
    return this.directive.option || (this.directive.controller &&
        this.directive.name)!
}

private getDirectiveRequire(): DirectiveRequireProperty {
    return this.directive.require || (this.directive.controller &&
        this.directive.name)!
}

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        this.directive.name)!
}

private getDirectiveOption(): DirectiveOptionProperty {
    return this.directive.option || (this.directive.controller &&
        this.directive.name)!
}
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```javascript
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`````````javascript

```javascript
Object.keys(context).forEach(propName => {
  const definition = context[propName];
  const bindingType = definition.charAt(0);
  const attrName = propName;
  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingOptions = definition.charAt(1);
      const attrName = propName;
      switch (bindingType) {
        case '@':
          case '<':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            break;
        case '=':
          this.inputs.push(inputName);
          this.inputsRename.push(inputNameRename);
          this.propertyMap[inputName] = propName;
          this.outputs.push(outputName);
          this.outputsRename.push(outputNameRenameChange);
          this.propertyMap[outputName] = propName;
          this.checkProperties.push(propName);
          this.propertyOutputs.push(outputName);
          break;
        case '&':
          this.outputs.push(outputName);
          this.outputsRename.push(outputNameRename);
          this.propertyMap[outputName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    });
  }

  /**
   * Upgrade ng1 components into Angular.
   */
  static resolve(
    exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},
    $injector: IInjectorService): Promise<string[]> {
    const promises = Object.keys(exportedComponents).map(name => {
      const exportedComponent = exportedComponents[name];
      exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
      exportedComponent.extractBindings();

      return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
        .then(template => exportedComponent.template = template);
    });

    return Promise.all(promises);
  }

  constructor(
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);

    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    } else {
      this.controllerInstance = this.helper.getDirective($injector, controllerType, true);
    }

    this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    this.destinationObject = this.destinationObject;
    if (this.destinationObject !== this.componentScope) {
      for (let i = 0; i < inputs.length; i++) {
        (this as any)[inputs[i]] = null;
      }

      for (let j = 0; j < outputs.length; j++) {
        const emitter = (this as any)[outputs[j]] = new EventEmitter<any>();
        if (this.propOuts.indexOf(outputs[j]) === -1) {
          this.setComponentProperty(outputs[j], (emitter => (value: any) => emitter.emit(value))(emitter));
        }
      }

      const emit = (this as any)[outputs[j]] = new EventEmitter<any>();

      if (this.propOuts.indexOf(outputs[j]) === -1) {
        emit.emit(value)(emitter);
      }
    }

    const controller = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate(this.template);

    const instantiateController = (controller: IDirective, componentScope: IScope) => {
      const controllerType = this.directive.controllerType;
      const bindToController = this.directive.bindToController;
      if (controllerType && !bindToController) {
        this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
      } else {
        this.controllerInstance = this.helper.getDirective($injector, controllerType, true);
      }

      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
      this.destinationObject = this.destinationObject;
      if (this.destinationObject !== this.componentScope) {
        for (let i = 0; i < inputs.length; i++) {
          (this as any)[inputs[i]] = null;
        }

        for (let j = 0; j < outputs.length; j++) {
          (this as any)[outputs[j]] = new EventEmitter<any>();
        }

        if (this.propOuts.indexOf(outputs[j]) === -1) {
          emit.emit(value)(emitter);
        }
      }
    }
```
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bootstrapped first and owns the bottom most view. `\n * 9. The new application is running in Angular zone, and therefore it no longer needs calls to:
```
\n * const const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
```
`angular.module('myExample', 
```
* * module.directive('ng2Comp',
```
### Example
```
```
Angular component from AngularJS Component\n * directive. The adapter will bootstrap AngularJS component
from within the Angular\n * template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The
component is instantiated by being listed in Angular template. This means that the\n * host element is controlled
by Angular, but the component's view will be controlled by\n * AngularJS.\n *\n * ### Supported Features\n
*\n * - Bindings:\n * - Attribute: `<comp name=\"World\">`\n * - Interpolation: `<comp greeting=\"Hello
{{name}}!\">`\n * - Expression: `<comp [name]=\"username\">`\n * - Event: `<comp
(close)=\"doSomething()\">`\n * - Transclusion: yes\n * - Only some of the features of\n * [Directive
Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are\n * supported:\n * - `compile`: not
supported because the host element is owned by Angular, which does\n * not allow modifying DOM structure
during compilation.\n * - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not
supported.)\n * - `controllerAs`: supported.\n * - `bindToController`: supported.\n * - `link`: supported.
(NOTE: only pre-link function is supported.)\n * - `name`: supported.\n * - `priority`: ignored.\n * `replace`: not supported.\n * - `require`: supported.\n * - `restrict`: must be set to 'E'.\n * - `scope`:
supported.\n * - `template`: supported.\n * - `templateUrl`: supported.\n * - `terminal`: ignored.\n * `transclude`: supported.\n *\n *\n * ### Example\n *\n * ```\n * const adapter = new
UpgradeAdapter(forwardRef(() => MyNg2Module));\n * const module = angular.module('myExample', []);\n *\n
* module.directive('greet', function() {\n * return {\n * scope: {salutation: '=', name: '=' },\n * template:
'{{salutation}} {{name}}! - <span ng-transclude></span>'\n * };\n * });\n *\n * module.directive('ng2',
adapter.downgradeNg2Component(Ng2Component));\n *\n * @Component({\n * selector: 'ng2',\n *
template: 'ng2 template: <greet salutation=\"Hello\" [name]=\"world\">text</greet>'\n * })\n * class
Ng2Component {\n * }\n *\n * @NgModule({\n * declarations: [Ng2Component,
adapter.upgradeNg1Component('greet')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n * document.body.innerHTML = '<ng2></ng2>';\n *\n * adapter.bootstrap(document.body,
['myExample']).ready(function() {\n * expect(document.body.textContent).toEqual(\"ng2 template: Hello world! text\");\n * });\n * ```\n */\n upgradeNg1Component(name: string): Type<any> {\n if
((<any>this.ng1ComponentsToBeUpgraded).hasOwnProperty(name)) {\n
return
this.ng1ComponentsToBeUpgraded[name].type;\n } else {\n
return (this.ng1ComponentsToBeUpgraded[name]
= new UpgradeNg1ComponentAdapterBuilder(name))\n
.type;\n }\n }\n\n /**\n * Registers the adapter's
AngularJS upgrade module for unit testing in AngularJS.\n * Use this instead of `angular.mock.module()` to load
the upgrade module into\n * the AngularJS testing injector.\n *\n * @usageNotes\n * ### Example\n *\n *
```\n * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n *\n * // configure the adapter with
upgrade/downgrade components and services\n * upgradeAdapter.downgradeNg2Component(MyComponent);\n
*\n * let upgradeAdapterRef: UpgradeAdapterRef;\n * let $compile, $rootScope;\n *\n * // We must register
the adapter before any calls to `inject()`\n * beforeEach(() => {\n * upgradeAdapterRef =
upgradeAdapter.registerForNg1Tests(['heroApp']);\n * });\n *\n * beforeEach(inject((_$compile_,
_$rootScope_) => {\n * $compile = _$compile_;\n * $rootScope = _$rootScope_;\n * }));\n *\n * it(\"says
hello\", (done) => {\n * upgradeAdapterRef.ready(() => {\n * const element = $compile(\"<mycomponent></my-component>\")($rootScope);\n * $rootScope.$apply();\n *
expect(element.html()).toContain(\"Hello World\");\n * done();\n * })\n * });\n *\n * ```\n *\n *
@param modules any AngularJS modules that the upgrade module should depend upon\n * @returns an
`UpgradeAdapterRef`, which lets you register a `ready()` callback to\n * run assertions once the Angular
components are ready to test through AngularJS.\n */\n registerForNg1Tests(modules?: string[]):
UpgradeAdapterRef {\n const windowNgMock = (window as any)['angular'].mock;\n if (!windowNgMock ||
!windowNgMock.module) {\n
throw new Error('Failed to find \\'angular.mock.module\\'.');\n }\n
this.declareNg1Module(modules);\n windowNgMock.module(this.ng1Module.name);\n const upgrade = new
UpgradeAdapterRef();\n this.ng2BootstrapDeferred.promise.then(\n
(ng1Injector) => {
(<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);\n return upgrade;\n }\n\n /**\n *
Bootstrap a hybrid AngularJS / Angular application.\n *\n * This `bootstrap` method is a direct replacement (takes

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same arguments) for AngularJS

`* `[`bootstrap`](https://docs.angularjs.org/api/ng/function/angular.bootstrap)

method. Unlike

AngularJS, this bootstrap is asynchronous.

```
const adapter = new UpgradeAdapter(MyNg2Module);

const module = angular.module('myExample', []);

* module.directive('ng2', adapter.downgradeNg2Component(Ng2));

* module.directive('ng1', function() {
* return {
* scope: {
* title: 'undo
* template: 'ng1[Hello
* {/title}]'}
* templateUrl: 'ng2[Hello
* {title}]'
* inputs: ['name']
* template: '<ng2[<ng1 title="name"]transclude</ng1>](<ng-content></ng-content>)

* class Ng2 {
* constructor(@NgModule({
* declarations: [Ng2,
* adapter.upgradeNg1Component('ng1')]
* imports: [BrowserModule]})
* class MyNg2Module {}

* document.body.innerHTML = '<ng2 name="World">project</ng2>'

* adapter.bootstrap(document.body, ['myExample']).ready(function() {
* expect(document.body.textContent).toEqual("ng2[ng1[Hello
* World!(transclude)](project)"");
* });
```

UpgradeAdapterRef {// Make sure resumeBootstrap() only exists if the current bootstrap is deferred

```
windowAngular = (window as any /** TODO #???? */)['angular'];
windowAngular.resumeBootstrap = undefined;

ng1BootstrapPromise = new

Promise((resolve) => {
  const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;

  windowAngular.resumeBootstrap = function() {
    windowAngular.resumeBootstrap = originalResumeBootstrap;

    const r = windowAngular.resumeBootstrap.apply(this, arguments);
    resolve();
    return r;
  };
}

adapter.upgradeNg1Provider('server');
adapter.upgradeNg1Provider('login', {asToken: Login});

adapter.bootstrap(document.body, ['myExample']).ready((ref) => {
  const example: Example = ref.ng1Injector.get(Example);
});
```

```
* Declare the AngularJS upgrade module for this adapter without bootstrapping the whole

* hybrid application.

```
```
const upgradeAdapter = this;
const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
const platformRef = platformBrowserDynamic();
this.ngZone = new NgZone({ enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec') });
this.ng2BootstrapDeferred = new Deferred();
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic);
.factory(INJECTOR_KEY, () => this.moduleRef.injector.get(Injector))
    .factory(LAZY_MODULE_REF,
        [INJECTOR_KEY, (injector: Injector) => ({ inject: LazyModuleRef })])
    .constant(NG_ZONE_KEY, this.ngZone)
    .factory(COMPLIER_KEY, () => this.moduleRef.injector.get(Compiler))

platformRef
    .bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions!, { ngZone: this.ngZone }])
    .then((ref: NgModuleRef<any>) => {
      this.moduleRef = ref;
    })
    .then(() => {
      if (isDevMode()) {
        console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone. ');
      }

      return rootScope.$evalAsync(() => {});
    });

const platformRef = platformBrowserDynamic();
this.ngZone = new NgZone({ enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec') });
this.ng2BootstrapDeferred = new Deferred();
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic);


this.ng2BootstrapDeferred.reject(e));
  }
  return ng1Module;
}

/**
 * Synchronous promise-like object to wrap parent injectors,\n * to preserve the synchronous nature of AngularJS's Scompile.\n */
class ParentInjectorPromise {
  // TODO(issue/24571): remove '.'.\n  private injector!: Injector;
  private
callbacks: ((injector: Injector) => any)[] = [];
  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element's element.data [controllerKey(INJECTOR_KEY), this);\n  }
  then(callback: (injector: Injector) => any) {\n    if (this.injector) {\n      callback(this.injector);\n    } else {\n      this.callbacks.push(callback);\n    }\n  }
  resolve(injector: Injector) {\n    this.injector = injector;\n    // clean out the element to prevent memory leaks\n    this.element = null;\n    // run all the queued callbacks\n    this.callbacks.forEach((callback) => callback(injector));\n    this.callbacks.length = 0;\n  }
}

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.\n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n * [Ahead-of-Time compilation](guide/aot-compiler).\n */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;
  public ng1RootScope: IRootScopeService = null;\n  public ng1Injector: IInjectorService = null;\n  public ng2ModuleRef: NgModuleRef<any> = null;\n  public ng2Injector: Injector = null;\n  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {\n    this.ng2ModuleRef = ngModuleRef;\n    this.ng2Injector = ngModuleRef.injector;\n    this.ng1Injector = ng1Injector;\n    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);\n    this._readyFn && this._readyFn(this);\n  }

  /**\n   * Register a callback function which is notified upon successful hybrid\n   * AngularJS / Angular application has been bootstrapped.\n   * The `ready` callback function is invoked\n   * inside the Angular zone, therefore it does not require a call to `$apply()`.\n   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {\n    this._readyFn = fn;\n  }

  /**\n   * Dispose of running hybrid AngularJS / Angular application.\n   */
  public dispose() {\n    this.ng1Injector!.get($ROOT_SCOPE).$destroy();\n    this.ng2ModuleRef!.destroy();\n  }
}

/**
 * Generated bundle index.\n * Do not edit.\n */

export * from './index';

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/** *
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  * (c) 2010-2020 Google LLC. https://angular.io/
  * License: MIT
  */
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
  zip/bundles/upgrade.umd.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
  zip/bundles/upgrade.umd.min.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-
  static.umd.js

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static.umd.min.js
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* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/static/src/downgrade_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/static/testing/src/create_angularjs_testing_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/dynamic/src/upgrade_ng1_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/component_info.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/constants.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/downgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/component_info.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/downgrade_component_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/downgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/downgrade_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/src/common/src/upgrade_adapter.js
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Angular

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The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-1.48 micrometer-registry-prometheus 1.5.1

1.48.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/PrometheusLongTaskTimer.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/HistogramFlavor.java
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* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/package-info.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/PrometheusCounter.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/PrometheusRenameFilter.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/PrometheusDurationNamingConvention.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/PrometheusTimer.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/MicrometerCollector.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/MicrometerConfig.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/PrometheusMeterRegistry.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
  jar/io/micrometer/prometheus/PrometheusDistributionSummary.java
1.49 tar 1.30+dfsg 6
1.49.1 Available under license:

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1.50 spring-web-mvc 5.2.7.RELEASE

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*
* Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* View technologies that support this contract can obtain an instance to
* delegate to via {link RequestContext#getRequestDataValueProcessor()}.  
*
* @author Rossen Stoyanchev
* @since 3.1
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/tags/form/TagIdGenerator.java
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 */
/**
 XSLT-driven View that allows for response context to be rendered as the
 result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * {@link #locateSource detected} during response rendering. Users can either specify
 * a specific entry in the model via the {@link #setSourceKey sourceKey} property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See {@link #getSourceTypes() here}
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure {@link #setOutputProperties output properties}
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/VersionStrategy.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java

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- /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
- /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/view/AbstractView.java
- /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java
- /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/config/annotation/ViewResolverRegistry.java
- /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/config/annotation/GroovyMarkupConfigurerBeanDefinitionParser.java
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- /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/config/annotation/MvcMethodArgumentResolver.java
- /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/config/annotation/ViewResolver.java
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jar/org/springframework/web/servlet/tags/form/SelectTag.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/view/json/AbstractJackson2View.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
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jar/org/springframework/web/servlet/tags/EvalTag.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/resources/TransformedResource.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/condition/AbstractMediaTypeExpression.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/handler/MappedInterceptor.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
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jar/org/springframework/web/servlet/view/xml/MarshallingView.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/condition/RequestMethodsRequestCondition.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/AbstractHandlerAdapterMapping.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityBodyEmitterReturnValueHandler.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/RouterFunctions.java
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* /opt/cola/permits/1135923484_1613633273.26/0/spring-test-5-2-12-release-sources-jar/org/springframework/test/context/support/DefaultTestContextBootstrapper.java
* /opt/cola/permits/1135923484_1613633273.26/0/spring-test-5-2-12-release-sources-jar/org/springframework/test/context/support/DelegatingSmartContextLoader.java
* /opt/cola/permits/1135923484_1613633273.26/0/spring-test-5-2-12-release-sources-jar/org/springframework/test/context/support/MergedTestPropertySources.java
* /opt/cola/permits/1135923484_1613633273.26/0/spring-test-5-2-12-release-sources-jar/org/springframework/test/web/servlet/setup/MockMvcConfigurerAdapter.java
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/**
 * Kotlin compliant `WebTestClient.BodySpec` for expectations on the response body decoded
 * to a single Object, see [KT-5464](https://youtrack.jetbrains.com/issue/KT-5464) for
 * more details.
 * @since 5.0.6
 */

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  jar/org/springframework/test/web/servlet/setup/DefaultMockMvcBuilder.java
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* /opt/cola/permits/1135923484_1613633273.26/0/spring-test-5-2-12-release-sources-
  jar/org/springframework/test/configuration/ContextConfigurationAttributes.java
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1.53 lucene-spatial-extras 7.7.3

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/**
 * Determines if the [@link #getAuthentication()] has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the [@link #getAuthentication()], else
 * false
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ar/jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
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ar/jar/org/springframework/security/crypto/password/MessageDigestPasswordEncoder.java
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/**
 * Reviews the <code>Object</code> returned from a secure object invocation, being able to
* modify the `<code>Object</code>` or throw an `@link AccessDeniedException`.  
* `<p>`  
* Typically used to ensure the principal is permitted to access the domain object  
* instance returned by a service layer bean. Can also be used to mutate the domain object  
* instance so the principal is only able to access authorised bean properties or  
* `<code>Collection</code>` elements.  
* `<p>`  
* Special consideration should be given to using an `<code>AfterInvocationManager</code>`  
* on bean methods that modify a database. Typically an  
* `<code>AfterInvocationManager</code>` is used with read-only methods, such as  
* `<code>public DomainObject getById(id)</code>`. If used with methods that modify a  
* database, a transaction manager should be used to ensure any  
* `<code>AccessDeniedException</code>` will cause a rollback of the changes made by the  
* transaction.  
* `<p>`  
* `<author Ben Alex>`  
*/

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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/factory/PasswordEncoderFactories.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/SpringSecurityCoreVersion.java

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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources.jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java

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*/
/**
 *
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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 */
/**
 * A token issued by [@link TokenService].
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
 * [@link TokenService] are free to use encryption or encoding strategies of their choice.
 * It is strongly recommended that keys are of sufficient length to balance safety against
 * persistence cost. In relation to persistence cost, it is strongly recommended that
 * returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/token/Token.java

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 */

/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain
 * implementation (version 2.3.7). See <a
 * href="http://iharder.sourceforge.net/current/java/base64/">http://iharder.sourceforge.net/current/java/base64/</a>
 * for more information.
 * For internal use only.
 * @author Luke Taylor
 * @since 3.0
 * @deprecated Use java.util.Base64
 */

/*
 * 1.59 pipe 2.0.0-20140414041502-3c2ca4d52544
 * 1.59.1 Available under license :
 * Package pipe implements unix-like pipelines for Go.
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1.60 asm-util 8.0.1

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* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java
1.61 jackson-annotations 2.11.3

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1.62 nettle 3.4.1-1

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*/
/** *
* Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
* *
* @param messageContext the current message context
* *
* @return true if the encoder provides end-to-end message confidentiality, false if not
* *
* @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
* ability
* to provide message confidentiality.
*/

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*/
/**
 * Gets whether the transport represents a confidential connection (e.g. an SSL connection).
 *
 * @return whether the transport represents a confidential connection
 */
/**
 * Sets whether the transport represents a confidential connection.
 *
 * @param isConfidential whether the transport represents a confidential connection
 */

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The security token profiles currently supported are:

- Web Services Security UsernameToken Profile 1.1
- Web Services Security SAML Token Profile 1.1
- Web Services Security X.509 Certificate Token Profile 1.1
- Web Services Security Kerberos Token Profile 1.1

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* /opt/ws_local/PERMITS_SQL/1057884753_1592369583.05/0/everit-json-schema-1-12-1-sources-jar/org/everit/json/schema/JSONPointer.java
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* /opt/ws_local/PERMITS_SQL/1057884753_1592369583.05/0/everit-json-schema-1-12-1-sources-jar/META-INF/maven/com.github.erosb/everit-json-schema/pom.xml
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* /opt/ws_local/PERMITS_SQL/1057884753_1592369583.05/0/everit-json-schema-1-12-1-sources-jar/org/everit/json/schema/internal/JSONWriter.java

1.67 cpp 8.3.0-6
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 * This just implements splitting a single line into fields.
 *
* The purpose of the CSVParser is to take a single string and parse it into
* its elements based on the delimiter, quote and escape characters.
*
* The CSVParser has grown organically based on user requests and does not truly match
* any current requirements (though it can be configured to match or come close). There
* is no plans to change this as it will break existing requirements. Consider using
* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.
*
* @author Glen Smith
* @author Rainer Pruy
*/

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@ author Glen Smith

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* /opt/cola/permits/1142779499_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/bean/CsvToBean.java
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1.75 pbkdf2 3.1.2

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1.78 create-hmac 1.1.7

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1.80 flyway-core 6.5.4

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1.81 spring-cloud-sleuth-zipkin

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* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-
  jar/org/springframework/cloud/sleuth/zipkin2/sender/RestTemplateSender.java
* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-
  jar/org/springframework/cloud/sleuth/zipkin2/ZipkinAutoConfiguration.java
* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-
  jar/org/springframework/cloud/sleuth/zipkin2/ZipkinActiveMqSenderConfiguration.java
* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-
  jar/org/springframework/cloud/sleuth/zipkin2/EndpointLocator.java
* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-
  jar/org/springframework/cloud/sleuth/zipkin2/ZipkinProperties.java
* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-
  jar/org/springframework/cloud/sleuth/zipkin2/ZipkinLoadBalancer.java
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  jar/org/springframework/cloud/sleuth/zipkin2/ZipkinProperties.java
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jar/org/springframework/cloud/sleuth/zipkin2/DefaultEndpointLocator.java
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* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/zipkin2/sender/ZipkinRabbitSenderConfiguration.java
* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/zipkin2/sender/ZipkinSenderCondition.java

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* Base64 encoder which is a reduced version of Robert Harder's public domain

* For internal use only.

* @author Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/FormatString.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/RestrictedApi.java

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/Concurrent/GuardedBy.java
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  jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
  jar/com/google/errorprone/annotations/CheckReturnValue.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1.jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1.jar/com/google/errorprone/annotations/Var.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1.jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1.jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1.jar/com/google/errorprone/annotations/RequiredModifiers.java

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources.jar/io/sundr/builder/internal/functions/TypeAs.java
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  * jar/io/sundr/builder/annotations/Adapter.java
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  * jar/io/sundr/builder/internal/functions/Construct.java
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
  * jar/io/sundr/builder/internal/functions/ToPojo.java
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
  * jar/io/sundr/builder/internal/resources/ValidationUtils.java

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1.103 xorg 7.7+19

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel
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1.104 debian-archive-keyring 2019.1

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1.105 hk2-locator 2.6.1

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*/
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
  * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
  * under GWT but with a slightly different signature.
  *
  * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
  * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
  * compiler to autostrip the normal server method in order to expose the special, inherited GWT
  * version.
  */

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/Partially.java

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  jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/hash/MacHashFunction.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/ConsumingQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/InterruptibleTask.java
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jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/TransformedIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/TreeRangeMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/TreeTraverser.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/CompactHashSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/FilteredMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/CompactHashMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collection/FilteredKeySetMultimap.java

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  jar/com/google/common/collection/Interners.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Functions.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/CountingInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Predicates.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/CharStreams.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Suppliers.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Supplier.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/primitives/Primitives.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/eventbus/EventBus.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Defaults.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/io/MultiInputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/collection/HashBiMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/Throwables.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/Resources.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizableReference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Preconditions.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/DirectExecutor.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Objects.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/LineReader.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizablePhantomReference.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizableWeakReference.java
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in @{code ImmutableSortedMap}, not this dummy
 * version.
 * 
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type @{code Comparable} to use @{link
 * ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/coll...MapEntry.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/io/MoreFiles.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/coll...MapDifference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/coll...SetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/coll...RowSortedTable.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/coll...Forw...Collection.java
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ForwardingListMultimap.java
*/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/ForwardingSetMultimap.java
*/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collection/MinMaxPriorityQueue.java
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 */

/*
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 */

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*/
/**
* Holder for web specializations of methods of [@code Ints]. Intended to be empty for regular
* version.
*/

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 * the License.
 */
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* version.
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  jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/GwtFluentFutureCachingSpecialization.java
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  jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/FileWriteMode.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/Invokable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/LinearTransformation.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableSet.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/graph/GraphConstants.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
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/**
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
*/

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Joiner.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/AtomicReferenceTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/thirdparty/guava-commons-lang-3-1.jar
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* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's java.util.HashMap class.
*/

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/Striped64.java
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  jar/com/google/common/base/JdkPattern.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/CommonPattern.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/PatternCompiler.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
  jar/com/google/common/base/CommonMatcher.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collection/ContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Monitor.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/annotations/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Ascii.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/annotations/Beta.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Atomics.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Strings.java

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collect/MapMaker.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/base/Platform.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/cache/CacheBuilder.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/util/concurrent/AbstractService.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/primitives/UnsignedBytes.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/primitives/SignedBytes.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/xml/XmlEscapers.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collect/SparseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/io/LineProcessor.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/primitives/UnsignedBytes.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/primitives/SignedBytes.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/util/concurrent/AbstractService.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collect/SparseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/escape/Escapers.java
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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/collect/SparseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2.jar/com/google/common/escape/Escapers.java
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*/
/*
/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
 * version.
 */

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/**
 **
 * 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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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/annotation/Value.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/GenericTypeAwareAutowiredCandidateResolver.java
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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/parsing/ReaderContext.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/BeanWrapperImpl.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/ListableBeanFactory.java
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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans.factory/support/StaticListableBeanFactory.java
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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/config/SingletonBeanRegistry.java

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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/NotReadablePropertyException.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java

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  jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/propertyeditors/UUIDEditor.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/ExtendedBeanInfo.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/factory/support/RootBeanDefinition.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/factory/support/TypeConverterSupport.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/annotation/AnnotationBeanUtils.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/BeanMetadataElement.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
  jar/org/springframework/beans/TypeConverterDelegate.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
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  jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java  
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
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### 1.117 survey 2.0.5

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*/
/**
 * Indicates that a component is only eligible for registration when all
 * { @linkplain #value specified conditions} match.
 * 
 * A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see { @link Condition} for details).
 * 
 * The { @code @Conditional} annotation may be used in any of the following ways:
 * <ul>
 *   <li>as a type-level annotation on any class directly or indirectly annotated with
 *       { @code @Component}, including { @link Configuration @Configuration} classes</li>
 *   <li>as a meta-annotation, for the purpose of composing custom stereotype
 *       annotations</li>
 *   <li>as a method-level annotation on any { @link Bean @Bean} method</li>
 * </ul>
 * 
 * If a { @code @Configuration} class is marked with { @code @Conditional},
 * all of the { @code @Bean} methods, { @link Import @Import} annotations, and
 * { @link ComponentScan @ComponentScan} annotations associated with that
 * class will be subject to the conditions.
 * 
 * <strong>NOTE</strong>: Inheritance of { @code @Conditional} annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * { @code @Conditional} itself is not declared as
 * { @link java.lang.annotation.Inherited @Inherited}; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * { @code @Conditional} must not be declared as { @code @Inherited}.
 * 
 * @author Phillip Webb
 * @author Sam Brannen
 * @since 4.0
 * @see Condition
 */

Found in path(s):
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
/*
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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {code MBeanServer} for bean references.
 *
 * <p>This {code FactoryBean} is a direct alternative to {code MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's {code MBeanServer}.
 *
 * <p>See the javadocs for WebSphere's
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

Found in path(s):
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
  jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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  jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
  jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
  jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
  jar/org/springframework/context/i18n/LocaleContextHolder.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
  jar/org/springframework/cache/annotation/EnableCaching.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
  jar/org/springframework/validation/beanvalidation/BeanValidationPostProcessor.java
jar/org/springframework/context/expression/CachedExpressionEvaluator.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/validation/SmartValidator.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/validation/validation/SmartValidator.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/instrument/classloading/websphere/WebSphereClassLoaderAdapter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/DefaultLifecycleProcessor.java

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 */
/**
 * Abstract the invocation of a cache operation.
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 * @author Stephane Nicoll
 * @since 4.1
 */

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/format/AnnotationFormatterFactory.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/validation/annotation/Validated.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/i18n/LocaleContext.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java

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jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
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jar/org/springframework/format/number/AbstractNumberFormatter.java
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jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
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jar/org/springframework/remoting/RemoteConnectFailureException.java
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jar/org/springframework/jmx/export/MBeanExportException.java
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jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
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jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
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jar/org/springframework/beans/BeansException.java
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jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
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  jar/org/springframework/context/Phased.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/format/datetime/joda/JodaTimeContext.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/format/datetime/joda/JodaTimeContext.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/scheduling/config/CronTask.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/context/event/EventPublicationInterceptor.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/remoting/support/RemoteAccessor.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/validation/MapBindingResult.java

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ImportSelector.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/ConfigurableApplicationContext.java
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* /opt/ws_local/PERMITS_SQL/1084394563_1598481158.67/0/exp4j-0-4-8-sources-1.jar/net/objecthunter/exp4j/Expression.java
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package spec

import (  
"encoding/json"  
"testing"  
"github.com/stretchr/testify/assert"
)

var license = License{
  LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  
  VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}} }

const licenseJSON = `  "name": "the name",  
  "url": "the url",  
  "x-license": "custom term"`

func TestIntegrationLicense(t *testing.T) {

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }

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package spec

import (  
    "encoding/json"
    
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
// // For more information: http://goo.gl/8us55a#licenseObject
type License struct {  
    LicenseProps  
    VendorExtensible
}

// LicenseProps holds the properties of a License object

type LicenseProps struct {  
    Name string `json:"name,omitempty"`  
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {  
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {  
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {  
    b1, err := json.Marshal(l.LicenseProps)  
    if err != nil {  
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)  
    if err != nil {  
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.123 string_decoder 1.1.1

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1.124 armon-go-metrics v0.0.0-20190430140413-ec5e00d3c878

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* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ByteBufProcessor.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/WrappedByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ByteBufHolder.java

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* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
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* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java

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jar/io/netty/buffer/PooledHeapByteBuf.java

1.128 go-spew 1.1.1

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1.129 jcTools-core 3.1.0

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1.131 bean-validation-api 2.0.1.Final

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1.132 jul-to-slf4j 1.7.30

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1.133 perl 5.28.1-6+deb10u1

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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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cpan/bignum/*
cpan/Tie-RefHash/*
cpan/Win32API-File/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
dist/Math-BigInt-FastCalc/*
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dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
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ext/NDBM_File/*
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1.135 elasticsearch-core 6.8.11

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1.136 hash.js 1.1.7
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# hash.js ![Build Status](https://secure.travis-ci.org/indutny/hash.js.svg)

Just a bike-shed.

```sh
```

```sh
```

## Usage

```js
```

```js
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```js
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## Selective hash usage

```js
```

```js
```

```js
```

Open Source Used In MSX Platform Services 4.0.0 1272
sha512().update('abc').digest('hex');
```

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1.137 evp_bytestokey 1.0.3

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1.138 jackson-module-parameter-names

2.11.0

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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lib/kdb/kdb_log.c
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*/
/**
 * Creates a new [AnalyzerAdapter]. *Subclasses must not use this
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 * [AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 * 
 * @param owner
 * the owner's class name.
 * 
 * @param access
 * the method's access flags (see [Opcodes]).
 * 
 * @param name
 * the method's name.
 * 
 * @param desc
 * the method's descriptor (see [Type]).
 * 
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * throws IllegalStateException
 * If a subclass calls this constructor.
 */

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

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

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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer} reference through WebSphere's proprietary {@code AdminServiceFactory} API, available on WebSphere 5.1 and higher.
* 
* This {@code FactoryBean} is a direct alternative to {@link MBeanServerFactoryBean}, which uses standard JMX 1.2 API to access the platform's {@code MBeanServer}.
* 
* See the javadocs for WebSphere's
* 
* and

@see javax.management.MBeanServer
@see MBeanServerFactoryBean
*/

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  jar/org/springframework/validation/annotation/AnnotationConfigApplicationContextExtensions.kt
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  jar/org/springframework/context/support/GenericApplicationContext.java
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  jar/org/springframework/context/ApplicationListener.java
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  jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
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  jar/org/springframework/cache/CacheManager.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/validation/beanvalidation/BeanValidationPostProcessor.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/annotation/ProfileCondition.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/expression/MethodBasedEvaluationContext.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/remoting/rmi/RmiServiceExporter.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/ApplicationObjectSupport.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scheduling/support/SimpleTriggerContext.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/MessageSourceSupport.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jndi/JndiObjectLocator.java
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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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  jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
  jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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/**
* Indicates that a component is only eligible for registration when all
* { @linkplain #value specified conditions } match.
* 
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see { @link Condition } for details).
* 
* <p>The { @code @Conditional } annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* { @code @Component }, including { @link Configuration @Configuration } classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
* </ul>
If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@Import` annotations, and `@ComponentScan` annotations associated with that class will be subject to the conditions.

NOTE: Inheritance of `@Conditional` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `@Conditional` itself is not declared as `@Inherited`; furthermore, any custom `@Inherited` annotation that is meta-annotated with `@Conditional` must not be declared as `@Inherited`.

@author Phillip Webb
@since 4.0
@see Condition

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/opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/annotation/Conditional.java

### 1.156 jackson-annotations 2.10.5

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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  https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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1.159 angular-moment 1.3.0

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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ModelRendering.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationModelsProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationTagsReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiOperationTagsReader.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationPositionReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationHiddenReader.java

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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources.jar/springfox/documentation/swagger/schema/ApiModelProperties.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources.jar/springfox/documentation/swagger/readers/operation/OpenApiOperationAuthReader.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources.jar/springfox/documentation/swagger/readers/operation/ResponseHeadersBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources.jar/springfox/documentation/swagger/web/ApiResourceController.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources.jar/springfox/documentation/swagger/web/TagsSorter.java
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jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java

1.161 clock 1.0.3

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1.170 jnr-constants 0.9.12

1.171 spring-web 5.2.12.RELEASE
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1.172 vdom-virtualize 2.0.0

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1.173 jackson-databind 2.11.0

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<one line to give the program's name and a brief idea of what it does.>
Version 1, February 1989

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1.180 kryo 4.0.2

1.181 commons-lang3 3.9

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1.182 asn1.js 5.4.1

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1.185 jetty-xml 9.4.29.v20200521

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.186 browserify-cipher 1.0.1

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1.187 apt 1.8.2.2

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* [https://github.com/eclipse-ee4j/jaxrs-api](https://github.com/eclipse-ee4j/jaxrs-api)

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The following artifacts are EPL.
  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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  * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
  * org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

  * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

------
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org.ow2.asm:asm-commons
org.ow2.asm:asm

-----
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/config/JWTConfig.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/exception/MissingSignatureException.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/token/exception/InvalidTokenException.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/com/mercateo/spring/security/jwt/security/config/JWTSecurityConfiguration.java
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/security/_JWTAuthority.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/config/_JWTConfigData.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/extractor/TokenProcessor.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/extractor/ClaimsValidator.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/extractor/JWTAuthenticationToken.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/extractor/JWTPrincipal.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/keyset/JWTKeyset.java
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/token/claim/_JWTClaims.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationSuccessHandler.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1.jar/com/mercateo/spring/security/jwt/data/ClaimName.java
1.208 antlr 2.7.7

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The primary ANTLR guy:

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1.209 docker-java 3.2.1

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1.213 classgraph 4.8.69

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1.216 rxjs 6.6.7

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1.218 spring-test 5.2.7.RELEASE

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 * /
 /**
 **
 * Kotlin compliant `WebTestClient.BodySpec` for expectations on the response body decoded
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jar/org/springframework/test/context/junit4/SpringRunner.java
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1.228 libunistring 0.9.10 1

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1.231 grep 3.3 1

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5.12.3

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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file
with no key entry. This happens with cacerts in Java 9+ because of the changes in JEP 229, because both JKS and PKCS12 files can now be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/*

Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*

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The PKCS12 key derivation function was also developed by Bouncy Castle (Look for the "pkcs12()" method inside PKCS8.java).

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

Other developers who have contributed code are:

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1.241 elliptic 6.5.4
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```javascript
at(e) {if(!d[t]) {if(!l[t]) {var i="function" == typeof require & require; if(!e & i) return i(t, !0); if(s) return s(t, !0); throw new Error("Cannot find module "+t);} 
  d[i] = [\{exports: [], \{f[t]():call(i.exports, function(e) { return at(f[t][1][\{e\}]).\{i\}.\{exports\}.\{f, d, n\}.return d[\{t\}].\{exports\};\} for(var s = "function" == typeof require & require, e = 0; s.length += a[n]; \} return a[i][1];\{function(e, i)\} ");
  }}

``````
s=a).prototype.validate=function(e){var
t=e.normalize().x,e=t.redSqr(),t=e.redMul(t).redAdd(e.redMul(this.a)).redAdd(t);return
0===t.redSqrt().redSqr().cmp(t)},f(s,d.BasePoint),a.prototype.decodePoint=function(e,t){return
this.point(n.toArray(e,t),1)},a.prototype.point=function(e,t){return new
s(this,e,t)},a.prototype.pointFromJSON=function(e){return
s.fromJSON(this,e)},s.prototype.precompute=function(){},s.prototype._encode=function(){return
this.getX().toArray("be",this.curve.p.byteLength())},s.fromJSON=function(e,t){return new
s(e,t[0],t[1]||e.one)},s.prototype.inspect=function(){return this.isInfinity()?"<EC Point Infinity>":"<EC Point x:
"+this.x.fromRed().toString(16,2)+" z:
"+this.z.fromRed().toString(16,2)+">"},s.prototype.isInfinity=function(){return
0===this.z.cmpn(0)},s.prototype.dbl=function(){var
e=this.x.redAdd(this.z).redSqr(),t=this.x.redSub(this.z).redSqr(),i=e.redSub(t),e=e.redMul(t),i=i.redMul(t.redAdd(th
is.curve.a24.redMul(i)));return this.curve.point(e,i)},s.prototype.add=function(){throw new Error("Not supported on
Montgomery curve")},s.prototype.diffAdd=function(e,t){var
i=this.x.redAdd(this.z),r=this.x.redSub(this.z),f=e.x.redAdd(e.z),i=e.x.redSub(e.z).redMul(i),f=f.redMul(r),r=t.z.red
Mul(i.redAdd(f).redSqr()),f=t.x.redMul(i.redISub(f).redSqr());return
this.curve.point(r,f)},s.prototype.mul=function(e){for(var
t=e.clone(),i=this,r=this.curve.point(null,null),f=[];0!==t.cmpn(0);t.iushrn(1))f.push(t.andln(1));for(var d=f.length1;0<=d;d--)0===f[d]?(i=i.diffAdd(r,this),r=r.dbl()):(r=i.diffAdd(r,this),i=i.dbl());return
r},s.prototype.mulAdd=function(){throw new Error("Not supported on Montgomery
curve")},s.prototype.jumlAdd=function(){throw new Error("Not supported on Montgomery
curve")},s.prototype.eq=function(e){return
0===this.getX().cmp(e.getX())},s.prototype.normalize=function(){return
this.x=this.x.redMul(this.z.redInvm()),this.z=this.curve.one,this},s.prototype.getX=function(){return
this.normalize(),this.x.fromRed()}},{"../utils":15,"./base":2,"bn.js":16,inherits:32}],6:[function(e,t,i){"use strict";var
r=e("../utils"),y=e("bn.js"),f=e("inherits"),d=e("./base"),n=r.assert;function a(e){d.call(this,"short",e),this.a=new
y(e.a,16).toRed(this.red),this.b=new
y(e.b,16).toRed(this.red),this.tinv=this.two.redInvm(),this.zeroA=0===this.a.fromRed().cmpn(0),this.threeA=0===t
his.a.fromRed().sub(this.p).cmpn(-3),this.endo=this._getEndomorphism(e),this._endoWnafT1=new
Array(4),this._endoWnafT2=new Array(4)}function
s(e,t,i,r){d.BasePoint.call(this,e,"affine"),null===t&&null===i?(this.x=null,this.y=null,this.inf=!0):(this.x=new
y(t,16),this.y=new
y(i,16),r&&(this.x.forceRed(this.curve.red),this.y.forceRed(this.curve.red)),this.x.red||(this.x=this.x.toRed(this.curve
.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.inf=!1)}function
c(e,t,i,r){d.BasePoint.call(this,e,"jacobian"),null===t&&null===i&&null===r?(this.x=this.curve.one,this.y=this.cur
ve.one,this.z=new y(0)):(this.x=new y(t,16),this.y=new y(i,16),this.z=new
y(r,16)),this.x.red||(this.x=this.x.toRed(this.curve.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.z.red||(this
.z=this.z.toRed(this.curve.red)),this.zOne=this.z===this.curve.one}f(a,d),(t.exports=a).prototype._getEndomorphis
m=function(e){var t,i,r;if(this.zeroA&&this.g&&this.n&&1===this.p.modn(3))return i=(e.beta?new
y(e.beta,16):i=(r=this._getEndoRoots(this.p))[0].cmp(r[1])<0?r[0]:r[1]).toRed(this.red),e.lambda?t=new
y(e.lambda,16):(r=this._getEndoRoots(this.n),0===this.g.mul(r[0]).x.cmp(this.g.x.redMul(i))?t=r[0]:(t=r[1],n(0===t
his.g.mul(t).x.cmp(this.g.x.redMul(i))))),{beta:i,lambda:t,basis:e.basis?e.basis.map(function(e){return{a:new
y(e.a,16),b:new y(e.b,16)}}):this._getEndoBasis(t)}},a.prototype._getEndoRoots=function(e){var
t=e===this.p?this.red:y.mont(e),i=new y(2).toRed(t).redInvm(),e=i.redNeg(),i=new
y(3).toRed(t).redNeg().redSqrt().redMul(i);return[e.redAdd(i).fromRed(),e.redSub(i).fromRed()]},a.prototype._getE
ndoBasis=function(e){for(var
t,i,r,f,d,n,a,s=this.n.ushrn(Math.floor(this.n.bitLength()/2)),c=e,h=this.n.clone(),o=new y(1),u=new y(0),b=new
y(0),l=new y(1),p=0;0!==c.cmpn(0);){var

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e=this.x.redSqr();t=this.y.redSqr();i=this.z.redSqr();r=t.redSqr();f=e.redAdd(e).redIAdd(e),d=f.redSqr();n=this.x.redAdd(t).redSqr().redISub(e).redISub(r),e=(n=(n=(n=n.redIAdd(n)).redAdd(n).redIAdd(n)).redISub(d)).redSqr(),r=r.redIAdd(r);r=(r=(r=r.redIAdd(r)).redIAdd(r)).redIAdd(r);d=f.redIAdd(n).redSqr().redISub(d).redISub(e).redISub(r),t=t.redMul(t);t=(t=t.redAdd(t)).redAdd(t);t=this.x.redMul(e).redISub(t);t=(t=t.redIAdd(t)).redIAdd(t);d=this.y.redMul(r.redISub(d)).redISub(n.redMul(e));d=(d=(d=d.redIAdd(d)).redAdd(d)).redIAdd(d);e=this.z.redAdd(n).redSqr().redISub(e).redISub(t);return this.curve.jpoint(t,d,e)},c.prototype.mul=function(e,t){return e=new y(e,t),this.curve._wnafMul(this,e)},c.prototype.eq=function(e){if("affine"===e.type)return this.curve.eq(t,d,e)},
The recovery param is more than two bits

if(0<=n.cmp(this.curve.p.umod(this.curve.n)))

setTimeout(() =>
    Math.random(), 1000);

for (let i = 0; i < 100; i++) {
    for (let j = 0; j < 100; j++) {
        console.log(i, j);
    }
}

console.log(`Hello, world!`);
o.length|+a|for(this.isZero()&&((a="0"+a);a.length%t!=0;a="0"+a);return a=0!==this.negative?"-"+a:a|p(1,"Base should be between 2 and 36")},m.prototype.toNumber=function(){var e=this.words[0];return 2==this.length?e+6710864*this.words[1]:3===this.length&1===this.words[2]?e+4503599627370496+6710864*this.words[1]:2<this.length&1?p(1,"Number can only safely store up to 53 bits"),0!==this.negative?e:m.prototype.toJSON=function(){return this.toString(16)},m.prototype.toBuffer=function(e,t){return p(void 0!==r),this.toArrayLike(Array,e,t)},m.prototype.toArrayLike=function(){var e=0;for(t=0;!s.isZero();t++)d=s.andln(255),s.iushrn(8),a[n]=d;for(n=0;n<f-r;n++)a[n]=0;for(n=0;s.isZero();n++)d=andln(255),s.iushrn(8),a[f-n-1]=d}return a},Math.clz32=m.prototype._countBits=function(e){var t=e,e=0;return 4096<=t&&(e+=13,t>>>=13),64<=t&&((e+=4,t>>>=4),2<<t&(e+=2,t>>>=2),e+t)},m.prototype._zeroBits=function(e){if(0===e)return 26;var t=e,e=0;return 0==(8191&t)&&(e+=13,t>>>=13),0==(127&t)&&(e+=7,t>>>=7),0==(15&t)&&(e+=4,t>>>=4),0==(3&t)&&(e+=2,t>>>=2),0==(1&t)&&e++,e+t},m.prototype.bitLength=function(){var e=this.words[this.length-1],e=m.prototype._countBits(e);return 26*(this.length-1)+e},m.prototype.zeroBits=function(){if(this.isZero())return 0;for(var e=0,t=0;t<this.length;t++){var i=m.prototype._zeroBits(this.words[t]);if(e+=i,26!==i)break}return e},m.prototype.byteLength=function(){return Math.ceil(m.prototype.bitLength()/8)},m.prototype.toTwos=function(e){return 0!==this.negative?this.abs().inotn(e).iaddn(1):this.clone()},m.prototype.fromTwos=function(e){return this.testn(e-1)?this.notn(e).iaddn(1).ineg():this.clone()},m.prototype.isNeg=function(){return 0!==this.negative},m.prototype.neg=function(){return this.clone().ineg()},m.prototype.ineg=function(){return this.isZero()||(this.negative^=1),this},m.prototype.iuor=function(e){for(;this.length<e.length;)this.words[this.length++]=0;for(var t=0;t<e.length;t++)this.words[t]=this.words[t]|e.words[t];return this.strip()},m.prototype.ior=function(e){return p(0==(this.negative|e.negative)),this.iuor(e)},m.prototype.or=function(e){return this.length>e.length?this.clone().ior(e):e.clone().ior(this)},m.prototype.uor=function(e){return this.length>e.length?this.clone().iuor(e):e.clone().iuor(this)},m.prototype.iand=function(e){return p(0==(this.negative|e.negative)),this.iuand(e)},m.prototype.and=function(e){return this.length>e.length?this.clone().iand(e):e.clone().iand(this)},m.prototype.uand=function(e){return this.length>e.length?this.clone().iuand(e):e.clone().iuand(this)},m.prototype.ixor=function(e){return p(0==(this.negative|e.negative)),this.iuxor(e)},m.prototype.xor=function(e){return this.length>e.length?this.clone().ixor(e):e.clone().ixor(this)},m.prototype.uxor=function(e){return this.length>e.length?this.clone().iuxor(e):e.clone().iuxor(this)},m.prototype.inotn=function(e){p("number"==typeof e&&0<=e);var t=0|Math.ceil(e/26),e=e%26;this._expand(t),0<e&&t--;for(var i=0;i<t;i++)this.words[i]=67108863&~this.words[i];0<e&&(this.words[i]=~this.words[i]&67108863>>26-e),this.strip()},m.prototype.iaddn=function(e){return this.clone().iaddn(e)},m.prototype.iuaddn=function(e){return this.clone().iuaddn(e)},m.prototype.iaxn=function(e){return this.clone().iaxn(e)},m.prototype.iaxn=function(e){return this.clone().iaxn(e)},m.prototype.iuanxn=function(e){return this.clone().iauanxn(e)},m.prototype.iuaddn=function(e){return this.clone().iuaddn(e)},m.prototype.iuanxn=function(e){return this.clone().iauanxn(e)},m.prototype.iuxor=function(e){return this.clone().iuxor(e)},m.prototype.uxor=function(e){return this.clone().uxor(e)},m.prototype.inotn=function(e){p("number"==typeof e&&0<=e);var t=0|Math.ceil(e/26),e=e%26;this._expand(t),0<e&&t--;for(var i=0;i<t;i++)this.words[i]=67108863&~this.words[i];0<e&&(this.words[i]=~this.words[i]&67108863>>26-e),this.strip()},m.prototype.iaddn=function(e){return this.clone().iaddn(e)},m.prototype.iuaddn=function(e){return this.clone().iuaddn(e)},m.prototype.iaxn=function(e){return this.clone().iaxn(e)},m.prototype.iaxn=function(e){return this.clone().iaxn(e)},m.prototype.iauanxn=function(e){return this.clone().iauanxn(e)},m.prototype.iuaddn=function(e){return this.clone().iuaddn(e)},m.prototype.iuanxn=function(e){return this.clone().iauanxn(e)},m.prototype.iuxor=function(e){return this.clone().iuxor(e)},m.prototype.uxor=function(e){return this.clone().uxor(e)},m.prototype.inotn=function(e){p("number"==typeof e&&0<=e);var t=0|Math.ceil(e/26),e=e%26;this._expand(t),0<e&&t--;for(var i=0;i<t;i++)this.words[i]=67108863&~this.words[i];0<e&&(this.words[i]=~this.words[i]&67108863>>26-e),this.strip()},m.prototype.iaddn=function(e){return this.clone().iaddn(e)},m.prototype.iuaddn=function(e){return this.clone().iuaddn(e)},m.prototype.iaxn=function(e){return this.clone().iaxn(e)},m.prototype.iaxn=function(e){return this.clone().iaxn(e)},m.prototype.iauanxn=function(e){return this.clone().iauanxn(e)},m.prototype.iuaddn=function(e){return this.clone().iuaddn(e)},m.prototype.iuanxn=function(e){return this.clone().iauanxn(e)},m.prototype.iuxor=function(e){return this.clone().iuxor(e)},m.prototype.uxor=function(e){return this.clone().uxor(e)}
null
3204031479,3329325298};function s() if(!(this instanceof s)) return new s;
n.call(this),this.h=[1779033703,3144134277,1013904242,2773480762,1359893119,2600822924,528734635,1541459225];
this.k=a,this.W=new Array(64);

Array(64) r.inherits(s,n),t.exports=s);

r.inherits(s,n),(t.exports=s).blockSize=512,s.outSize=256,s.hmacStrength=192,s.padLength=64,s.prototype._update=function(e,t)
for(var i=0;i<16;i++)
this.h[i]=e[i];
for(;i<this.h.length;i++)
this.h[i]=m(_(this.h[i-2]),this.h[i-7],S(this.h[i-15]),this.h[i-16]);

var f<this.h[0],d=this.h[1],n=this.h[2],a=this.h[3],s=this.h[4],c=this.h[5],h=this.h[6],o=this.h[7];
for(l(this.k.length===this.h.length),r=0;r<this.h.length;r++)
var u=v(o,w(s),g(s,c,h),this.k[r],this.h[r]),b=p(M(f),y(f,d,n)),o=h,h=c,c=s,s=p(a,u),a=n,n=d,d=f,f=p(u,b);
this.h[0]=p(this.h[0],f),this.h[1]=p(this.h[1],d),this.h[2]=p(this.h[2],n),this.h[3]=p(this.h[3],a),this.h[4]=p(this.h[4],s),this.h[5]=p(this.h[5],c),this.h[6]=p(this.h[6],h),this.h[7]=p(this.h[7],o);

var e<this.h[0],d=this.h[1],n=this.h[2],a=this.h[3],s=this.h[4],c=this.h[5],h=this.h[6],o=this.h[7];
for(l(this.k.length===this.h.length),r=0;r<this.h.length;r++)
var u=v(o,w(s),g(s,c,h),this.k[r],this.h[r]),b=p(M(f),y(f,d,n)),o=h,h=c,c=s,s=p(a,u),a=n,n=d,d=f,f=p(u,b);
this.h[0]=p(this.h[0],f),this.h[1]=p(this.h[1],d),this.h[2]=p(this.h[2],n),this.h[3]=p(this.h[3],a),this.h[4]=p(this.h[4],s),this.h[5]=p(this.h[5],c),this.h[6]=p(this.h[6],h),this.h[7]=p(this.h[7],o);

r.exports=s}.blockSize=1024,s.outSize=384,s.hmacStrength=192,s.padLength=128,s.prototype._digest=function(e)
return"hex"===e?r.toHex32(this.h,"big"):r.split32(this.h,"big")

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* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1-tar-gz/indutny-elliptic-956793a/dist/elliptic.min.js
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 * Curve 25519-based cryptography collection.
 * 
 * EC Diffie-Hellman (ECDH) based on Curve25519 and digital signatures (EdDSA)
 * based on Ed25519.
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/* Copy of {@link org.slf4j.helpers.BasicMarker} from slf4j-api v1.7.12,
* with a minor change to make the constructor public,
* so that it can be extended in other packages.
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* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/encoder/CompositeJsonEncoder.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/HeaderFilter.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/cbor/CborJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/FieldNamesAware.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/AccessEventNestedJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/layout/LogstashAccessLayout.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/LogstashUdpSocketAppender.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/listener/LoggingEventTcpAppenderListenerImpl.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/fieldnames/LogstashCommonFieldNames.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LogLevelJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/FeatureJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/layout/AbstractJsonPatternParser.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/FeatureJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/pattern/AbstractJsonPatternParser.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/AbstractNestedJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/mask/FieldNameBasedFieldMasker.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/loggingevent/RootNameJsonProvider.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/loggingevent/LogEntryJsonProvider.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/loggingevent/JsonMessageJsonProvider.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/loggingevent/ThreadNameJsonProvider.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/loggingevent/UuidProvider.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/AbstractJsonProvider.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/appender/SSLLogstashTcpSocketAppender.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/composite/accessesevent/AccessEventJsonProviders.java

* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/logstash-logback-encoder-6-4-sources.jar/net/logstash/logback/decorate/FeatureDecorator.java
jar/net/logstash/logback/decorate/smiley/SmileyFeatureJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/encoder/SeparatorParser.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/composite/JsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/marker/ObjectFieldsAppendingMarker.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/status/DelegatingStatusListener.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/decorate/yaml/YamlJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/decorate/CompositeJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/composite/loggingevent/CallerDataJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/layout/AccessEventCompositeJsonLayout.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/appender/listener/AccessEventAppenderListenerImpl.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/CachingAbbreviator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/appender/destination/DestinationParser.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/appender/AbstractLogstashTcpSocketAppender.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/composite/loggingevent/TagsJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/appender/RingBufferFullException.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/decorate/JsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/appender/destination/PrefersPrimaryDestinationConnectionStrategy.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/pattern/LoggingEventJsonPatternParser.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/composite/loggingevent/ThrowableRootCauseClassNameJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/marker/ObjectAppendingMarker.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/layout/LogstashLayout.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/appender/LogstashTcpSocketAppender.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/encoder/AccessEventCompositeJsonEncoder.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
ar/net/logstash/logback/encoder/LogstashAccessEncoder.java
* /opt/ws_local/PERMITS_SQL/1077482335_15968577747.4/0/logstash-logback-encoder-6-4-sources-
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* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/MethodResolver.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/ConstructorExecutor.java

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* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/SpelCompilerMode.java

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* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/OperatorOverloader.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/AccessException.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/TypeConverter.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/TypeComparator.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/CompiledExpression.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/standard/Token.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/ParseException.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/common/ExpressionUtils.java

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jar/org/springframework/expression/spel/...
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  jar/org/springframework/expression/spel/SpelEvaluationException.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/TypedValue.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
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* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/SpelNode.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/ExpressionException.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
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* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/CodeFlow.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/common/LiteralExpression.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/Operation.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/cola/permits/1135872690_1613620730.6/0/spring-expression-5-2-12-release-sources-
  jar/org/springframework/expression/BeanResolver.java
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1.250 hystrix-serialization 1.5.18

1.251 mime4j 0.8.3

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  jar/org/springframework/security/saml/SAMLBootstrap.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/SAMLDiscovery.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/metadata/AbstractMetadataDelegate.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/metadata/ExtendedMetadataDelegate.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/metadata/ExtendedMetadata.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/metadata/CachingMetadataManager.java

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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/storage/EmptyStorageFactory.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/parser/ParserPoolHolder.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-
  jar/org/springframework/security/saml/storage/HttpSessionStorageFactory.java

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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0.10-release-sources-jar/org/opensaml/liberty/paos/impl/RequestBuilder.java
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  jar/org/springframework/security/saml/trust/UntrustedCertificateException.java

1.258 iancoleman-strcase v0.1.3
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1.260 javax-websocket-client-impl

9.4.29.v20200521

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.263 servo-core 0.12.21

1.264 buffer-xor 1.0.3
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1.265 java-driver-query-builder 4.6.1

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1.266 create-hash 1.2.0

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1.267 flatpickr 4.6.2

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* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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1.275 findutils 4.6.0+git+20190209 2
1.275.1 Available under license :
It was downloaded from ftp://ftp.gnu.org/gnu/findutils

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1.276 xerces-j 2.12.0

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
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1.283 angular-ui-sortable 0.17.2
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1.284 yaml 1.0.0

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1.285 brave-instrumentation-kafka-streams

5.12.3

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1.287 rank-eval-client 6.8.11
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
  jar/springfox/documentation/service/Contact.java
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  jar/springfox/documentation/annotations/Cacheable.java
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  jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java
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  jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
  jar/springfox/documentation/service/ImplicitGrant.java
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  jar/springfox/documentation/builders/
jar/springfox/documentation/service/VendorExtension.java
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jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/spring/wrapper/PatternsRequestCondition.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/ResponseMessage.java

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  jar/springfox/documentation/schema/ClassSupport.java
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  jar/springfox/documentation/schema/Enums.java
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  jar/springfox/documentation/service/Tags.java
1.292 lucene-misc 7.7.3

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Automatic-Module-Name: zipkin2.reporter.amqp
Bnd-LastModified: 1589702698496
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Sender: RabbitMQ AMQP Client 4.x
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-amqp-client
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.amqp;version="2.15.0";uses="com.rabbit
mq.client,zipkin2,zipkin2.codec,zipkin2.reporter"
Import-Package: com.rabbitmq.client;version="[4.11,5)".zipkin2;version="[2.21,3)".zipkin2.codec;version="[2.21,3)".zipkin2.reporter;version="[2.15,3)"
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1.308 prometheus-procfs v0.0.5

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1.310 openssl 1.1.1d 0+deb10u5

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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/netty-codec-http-4-1-50-final-sources-
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Maps.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelSpecificationProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyDefinitions.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/DefaultGenericTypeNamingStrategy.java

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*/opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java
*/opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
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*/opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelProvider.java
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under
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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.326 angular-animate 1.8.2
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* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/PermissionDeniedDataAccessException.java

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1.347 elasticsearch 6.8.11

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1.348 pc re 8.39 12

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1.349 commons-compress 1.20

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1.357 batik-constants 1.11

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1.372 commons-beanutils 1.9.4

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Protocol Buffers for Go with Gadgets

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---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |
The `/sys/license` endpoint is used to view and update the license used in
Vault.
---

# `/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

---
```bash
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```json
{
    "data": {
        "expiration_time": "2017-11-14T16:34:36.546753-05:00",
        "features": [
            "UI",
            "HSM",
            "Performance Replication",
            "DR Replication"
        ],
        "license_id": "temporary",
        "start_time": "2017-11-14T16:04:36.546753-05:00"
    },
    "warnings": [
        "time left on license is 29m33s"
    ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` `(string: <required>)` The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

### Sample Payload

```json
```
### Sample Request

```bash
$ curl \
--header "X-Vault-Token: ..." \
--request PUT \
--data @payload.json \
http://127.0.0.1:8200/v1/sys/license
```

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BSON library for Go

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mgo - MongoDB driver for Go

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      </div>
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        </div>
      </form>
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        {{/info-table-row}}
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// LicensesService handles communication with the license related
// methods of the GitHub API.

// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"
    SHA *string `json:"sha,omitempty"
    Size *int `json:"size,omitempty"
    URL *string `json:"url,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    GitURL *string `json:"git_url,omitempty"
    DownloadURL *string `json:"download_url,omitempty"
    Type *string `json:"type,omitempty"
    Content *string `json:"content,omitempty"
    Encoding *string `json:"encoding,omitempty"
    License *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL *string `json:"url,omitempty"
    SPDXID *string `json:"spdx_id,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    Featured *bool `json:"featured,omitempty"
    Description *string `json:"description,omitempty"
    Implementation *string `json:"implementation,omitempty"
    Permissions *[]string `json:"permissions,omitempty"
    Conditions *[]string `json:"conditions,omitempty"
    Limitations *[]string `json:"limitations,omitempty"
    Body *string `json:"body,omitempty"
}

func (l License) String() string {
    return Stringify(l)
// List popular open source licenses.
//@ GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([][]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
}

// Get extended metadata for one license.
//@ GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, nil
}

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SAP HANA Database driver for the Go Programming Language

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

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* /opt/ws_local/PERMITS_SQL/1086407843_1599272389.45/0/jose4j-lang/EllipticCurveJsonWebKey.java
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* /opt/ws_local/PERMITS_SQL/1086407843_1599272389.45/0/jose4j-lang/JwtClaims.java
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* /opt/ws_local/PERMITS_SQL/1086407843_1599272389.45/0/jose4j-lang/HashUtil.java
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* /opt/ws_local/PERMITS_SQL/1086407843_1599272389.45/0/jose4j-lang/JsrsJsonWebKey.java
* /opt/ws_local/PERMITS_SQL/1086407843_1599272389.45/0/jose4j-lang/GeneralJwtException.java

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5.12.3

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1.384 fonts-dejavu 2.37-1

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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, as well as supported commercially by FasterXML.com.

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1.386 sundr-codegen 0.21.0

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package spec

import (
    "encoding/json"
    "testing"
    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

---

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const licenseJSON = `{
  "name": "the name",
  "url": "the url",
  "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

  // const licenseYAML = "name: the name
  // url: the url"

  b, err := json.MarshalIndent(license, "", "\t")
  if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
  }

  actual := License{}
  err = json.Unmarshal([]byte(licenseJSON), &actual)
  if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
  }

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package spec

import (
  "encoding/json"
  "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {

LicenseProps
VendorExtensible

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/service/contexts/OperationContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/service/contexts/ResponseContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/service/contexts/PathContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/schema/ModelContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
  jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java
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1.393 snake-yaml 1.25

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**1.394 objectweb-asm 8.0.1**

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1058051010_1595249430.87/0/asm-8-0-1-jar/META-INF/MANIFEST.MF

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* 
* Hosted at: https://github.com/classgraph/classgraph
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1.399 jnr-posix 3.0.50

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1.401 jackson 2.9.10
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/**
 * Magic value for proprietary OpenSSH private key.
 **/

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* /opt/cola/permits/1136414823_1613765312.21/0/bcprov-ext-jdk15on-1-64-sources-1-
jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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/**
 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
 * effective key bits) used in the authenticator.
 * <p>
 * The polynomial calculation in this implementation is adapted from the public domain <a
 * href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
 * by Andrew M (@floodyberry).
 * @see Poly1305KeyGenerator
 */

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jar/org/bouncycastle/crypto/macs/Poly1305.java
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/**
 * SPHINCS-256 signer.
 * <p>
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
 * the digests used
 * for message hashing and tree construction are now configurable (within limits...) and that the implementation
 * produces
 * detached signatures.
 * <p>
 * The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
 * section 1 in https://eprint.iacr.org/2014/795.pdf
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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* /opt/cola/permits/1136414823_1613765312.21/0/bcprov-ext-jdk15on-1-64-sources-1-jar/org/bouncycastle/asn1/x9/DomainParameters.java

1.406 angular-bootstrap-slider 0.1.26

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The following people and organisations donated financially to help with the release of 1.57:

Joop Kaashoek and Pexus LLC.

We also wish to acknowledge financial and collaborative support from <a href="https://www.cisco.com/">CISCO</a> and additional financial support from <a href="https://www.primekey.com/">PrimeKey</a> towards developing the EST API for RFC 7030 support.

The following people and organisations donated financially to help with the release of 1.56:

DidiSoft, Cotiviti, Atanas Krachev, Encryptomatic LLC, LogicalAnswersIncSupporter
The following people and organisations donated financially to help with the release of 1.55:

Digistamp, RAM NAG

The following people and organisations donated financially to help with the release of 1.54:

Lobster GmbH

The following people and organisations donated financially to help with the release of 1.53:

Sheba, Ishmal Bartley, and Li-Chang Johnny Lo

The following people and organisations donated financially to help with the release of 1.52:

lecker@064buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Leneros.

The following people and organisations donated financially to help with the release of 1.51:

Gup & Boz @ Alki Seattle, Bytemine Gmbh, Ted Pennings, Atanas Krachev, PrimeKey Solutions AB, Martin Paljak, CorseraFri19980116, CPU Terminator, Lindsay Bradford, kares, Philius, and Aaron Anderson.

Organisations

- Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!
- <a href="http://www.atlassian.com/>Atlassian Software Systems donation of Confluence and JIRA licences.</a>
- <a href="http://www.grierforensics.com">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.
- TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.
- TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: <a href="http://www.flexiprovider.de">http://www.flexiprovider.de</a>
<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a>.</li>

Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.

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<li>Ly-Na Phu &lt;lyna.phu@init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
<li>Stefan K&ouml;psell &lt;sk13@microbits.com.au&gt; - making the jdk 1.1 version of the collections API available. For further details see http://sourceforge.net/projects/jcf/</li>
<li>Carmen Bastiaans &lt;cbastiaa@microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson &lt;tomaszg#primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
<li>Eugen Kuleshov &lt;euxx@hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>
<li>Megan Woods &lt;meganwoods@sekurafile.com&gt; - initial implementation of ECIES.</li>
<li>Christian Geuer-Pollmann &lt;geuerp@apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>
<li>Michael M.&amp;#252;hle &lt;Michael#mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
<li>Michael Mansell &lt;me#michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.</li>
<li>Eike Recker &lt;eike.recker@gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>
<li>Chris Southern &lt;CSouthern@baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.</li>
<li>Sidney Markowitz &lt;sidney#sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>
<li>Chris Kerr &lt;ckerr#filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>
<li>Mike Bean &lt;mbean#lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Martin Petraschek &lt;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Jess Garms &lt;jgarms#yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.</li>
<li>Mike Bremford &lt;mike#big.faceless.org&gt; - contributing the initial PKCS7 implementation.</li>
<li>Shankar Srinivasan &lt;sr002@yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>
<li>Stef Hoeben &lt;ilsestef@skytenet.be&gt; - adding Montgomery multiplication to the BigInteger class.</li>
<li>Klaudiusz Ciosk &lt;kciosk@max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.</li>
<li>Thomas Houteckier &lt;Thomas.Houteckier#tectrade.net&gt; - S/Mime testing and debugging.
Interoperability with Biztalk.

- Don Hillsberry &lt;hillsber@#064:dialcorp.com&gt; - S/MIME testing and debugging.
- Kazuo Furuya &lt;kfuruya@#064:infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.
- Jason Novotny &lt;jnovotny@#064:lbl.gov&gt; - initial work on the openSSL PEM processing.
- Joel Hockey &lt;joel.hockey@#064:qsipayments.com&gt; - initial work on the openSSL PEM processing.
- John Steenbruggen &lt;JohnS@#064:geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
- Justin Chapweske &lt;justin@#064:chapweske.com&gt; - ordering patch for Tiger message digest.
- John Serock &lt;jserock@#064:hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Compliance of KeyUsage extension return value with security API.

- Sascha Weinreuter &lt;Sascha.Weinreuter@#064:cit.de&gt; - fixed SMIME saveChanges() bug.
- Andre Wehnert &lt;aw5@#064:mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.
- Luigi Lo Iacono &lt;lo_iacono@#064:nu.ei-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.
- Tim Sakach &lt;tsakach@#064:certivo.net&gt; - SMIME v2 compatibility patches.
- Marcus Povey &lt;mpovey@#064:brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.
- Sebastian Clau@szlig; &lt;sc2@#064:inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.
- Nicolas Bie1za &lt;nicolas.bielza@#064:alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.
- Casey Marshall &lt;rsdio@#064:metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.
- Rick Zeldes &lt;rick.zeldes@#064:eds.com&gt; - initial code for CMS/SMIME CompressedData.
- Jarek Gawor &lt;gawor@#064:mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.
- Brett Neumeier &lt;random@#064:rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
- Graham Coles &lt;graham.coles@#064:retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.
- J&ouml;n von Kattchee &lt;J.Kattchee@#064:seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.
- Matteo Artuso &lt;matartuso@#064:libero.it&gt; - picking up the possible overread in ASN1InputStream.
- Julian Morrison &lt;julian@#064:extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.
- Elmar Sonnenschein &lt;eso@#064:esomail.de&gt; - fix to long conversion in clean room SecureRandom.
- J&ouml;n Schwarze &lt;JSchwarze@#064:ulc.de&gt; - Locale fix for the clean room JCE.
- Bryan Lovquist &lt;blkl@#064:cps.com.au&gt; - Other provider compatibility fixes for CMS signing.
- Artem Portnoy &lt;Artem_Portnoy@#064:ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.
- Michael H&uuml;auml;usler &lt;haeusler@#064:ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.
- Johan Seland &lt;johans@#064:netfonds.no&gt; - general toString for BigInteger class.
- Johannes Nicolai &lt;johannes.nicolai@#064:novosec.com&gt; - further enhancements to OCSP response.
generation, fix to CertificateID issuer.\\nl\\nMarc Doberva &lt;marc.doberva@#064ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.\\nl\\nJan Dvorak &lt;jan.dvorak@#064mathan.cz&gt; - initial implementation of the light weight Null block cipher.\\nl\\nJoe Cohen &lt;jcohen@#064forum.sys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.\\nl\\nChris Long &lt;aclong@#064ece.cm.edu&gt; - adding public key decoding to PEMReader.\\nl\\nHes Siemelink &lt;hes@#064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.\\nl\\nStefan Puiu &lt;stefanpuiuro@#064yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.\\nl\\nKaiser Yang &lt;kaiseryang@#064@yahoo.com&gt; - Finding BigInteger loop problem in prime generation.\\nl\\nJiri Urbanec &lt;jiri.urbanec@#064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().\\nl\\nJustin Kolb &lt;jkolb@#064pristx.com&gt; - patch toDSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.\\nl\\nRalf Hauser &lt;ralfhauser@gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.\\nl\\nMichal Dvorak &lt;M_Dvorak@#064cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.\\nl\\nBrien Oberstein &lt;brien.oberstein@#064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUUtil.\\nl\\nIan Haywood &lt;ian@#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.\\nl\\nJonathan Edwards &lt;js4gull@#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.\\nl\\nAndrew Thornton &lt;andrew@#064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.\\nl\\nGregor Leander &lt;gl@#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.\\nl\\nAntoon Bosselaers &lt;Antoon.Bosselaers@esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.\\nl\\nPeter Sylvester &lt;Peter.Sylvester@#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.\\nl\\nDoug &lt;ummmm@#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.\\nl\\nFrancois Staes &lt;fstaes@#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.\\nl\\nW.R. Dittmer &lt;wdittmer@cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKKeyPair to fix nullpointer exception.\\nl\\nPerez Paz Luis Alberto &lt;laperez@#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.\\nl\\nJames Wright &lt;James_Wright@#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.\\nl\\nJim Ford &lt;jim@#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding
secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;haustler@064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;spull@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@064digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;lxyz@064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen@064vianvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem@064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva@064wedoconsulting.com&gt; - patch to fix overread issue in BCPSignInputStream.</li>
<li>Alpesh Parmar &lt;alps@064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach@064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug@064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1@064umbc.edu&gt; - infinite loop prevention patch to PKCSS52ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill@064profcon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;C.Breitenstrom@064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti@064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nscendoni@064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skyttä &lt;ville.skytt@064iki.fi&gt; - patch to CRLDistPoint for oCRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon@064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPSignInputStream.</li>
<li>Miles Whiteley &lt;miles.whiteley@064savvis.net&gt; - "223" fix for BCPSignInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner@064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos@064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala@064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>
<li>Rolf Schillinger &lt;rolf@064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin@064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OBF mode (GOB) and GOST-3411.</li>
<li>Francck Leroy &lt;francck.leroy@064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka &lt;ymnk@064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshakov &lt;tyrex@reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

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

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

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

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

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

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

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

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

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

Pavel Vassiliev &lt;paulvvas@064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-DES encryption for RSAPrivate keys to PEMWriter.

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

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

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-DES MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
<li>David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.  

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<li>Lawrence Tan &lt;lwrntan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.  

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

    </li>
<li>Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.  

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

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<li>Jürg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileStream, support for F2m compression.  

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<li>Karsten Ohme &lt;widerstand@064-territory.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name topos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.  

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<li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.  

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<li>Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctl&gt; &amp;lt;m&gt; only handling in CRLOutputStream.  

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<li>John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.  

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<li>Stefan Neusatz Guilhen &lt;snneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.  

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<li>Mario Lo Giudice &lt;mario.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.  

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

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<li>Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.  

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<li>Pasi Eronen &lt;pasi.eronen@064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.  

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

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<li>Armin H&auml;uuml;berling &lt;armin.hau@berling.&amp;lt;arminha@064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.  

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<li>Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery
attack.</li>
<li>Xavier Le Vouch &lt;l:xavier@064brittanysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews@064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;treikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rojaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;dStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g@064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&amp;amp;uml;thler &lt;olga.kathe@064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&amp;amp;uacute;ria Mar&amp;iacute; &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;jl@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdz &lt;gwozdz@064rgp.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal@064octaviantech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check. |<br>.....
unterminated NDEF's.</li>
</ul>
<li>Roelof Naude &lt;roelof.naude@epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck@064signatures.net&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BIA-93].</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider to useSignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].</li>
<li>Roelof Naude &lt;roelof.naude@epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider to useSignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].</li>
<li>Michael Schoene &lt;michael@064sigrund-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Patrick Peck &lt;peck@signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BIA-93].</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider to useSignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].</li>
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<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider to useSignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].</li>
<li>Tomas Krivanek &lt;tom@atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kiläriings &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darianois@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith@064cnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) #:BJA-291.</li>
<li>Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Ditteberner &lt;jan@064ditteberner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgoo@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Alf Malf &lt;alfilmalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten@064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Michaël Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buku &lt;tbuku@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick &lt;daniel.f.nwr#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson#064quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Daniel Eleriseth &lt;Eleriseth#WPECGLtYbVi8Rlf6Y7Vz1Lvd2EUW99v3yNV3IWOOG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;phil_b#064@yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidékeacuten Borell &lt;samuel#primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

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

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

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

Andrey Zhozhin &lt;zhozhin#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.
Eric Müller &lt;eric.mueller@sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;...&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student#064gmail.com&gt; Initial support for block cipher IVs in ISEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter#iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt &lt;Daniel.Heldt#064cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;boincycastle#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts#064risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;tobias.wich#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb#064riseup.net&gt; Contributions to BCrypt/OpenBSDCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky &lt;peto@halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>Peter Jr Halicky &lt;peto@halicky.sk&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC@064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rdcroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Michael &lt;https://github.com/MSKnete&amp;#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle@064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x.509.CertificatePolicies.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
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- Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x.509.CertificatePolicies.

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The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

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

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

Artem Storozhuk &lt;storooj72&#064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis&#064064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; defect analysis and additional test cases for the provider.

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Evangelos Karatsiolis &lt;ekaratsiolis&#064064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

David Strawn &lt;https://github.com/isomarcte&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

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David Strawn &lt;https://github.com/isomarcte&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BePublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valdim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;https://github.com/fgrieu#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSAEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in KIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;https://github.com/nos&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha2Poly1305 prototype.</li>
<li>Aurimas Litiukas &lt;https://github.com/litiukas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Stroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilibs95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; JavaDoc fixes.</li>
<li>Antoine Touilme &lt;https://github.com/atouilme&gt; Initial implementation of EthereumISSEngine.</li>
<li>Gaylor Bosson &lt;https://github.com/gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>Gael Lalire &lt;https://github.com/galalire&gt; Patch for unprotected PGP private keys as SEXP. Patch for case-insensitive behaviour of Param-Z.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOflndingsZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath
1.419 go-yaml v3.0.0-20200615113413-eeeca48fe776

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 * Allowing them being read would mean anyone with access to the channel could get them.
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jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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 * Set the [@code TCP_QUICKACK] option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
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1.421 xom 1.2.10

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1.428 go-junit-report 0.9.1

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1.429 crypto-browserify 3.12.0

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1.430 x-time-rate v0.0.0-20191024005414-555d28b269f0

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.apache.taglibs:taglibs-standard-impl

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org.eclipse.jetty.toolchain:jetty-schemas

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1.436 byte-buddy 1.9.4

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jar/net/bytebuddy/dynamic/scaffold/TypeInitializer.java
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 */
/** Overrides binding confidentiality. */
/**
 * @return true iff the encoder cannot provide confidentiality
 */
/**
 * @param flag override flag
 */

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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/mail/javamail/JavaMailSender.java

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# Defaults for the Java Activation Framework (revised).
#
# Modified extensions registered in this file:
# text/plainjava c c++ cpp pl cc h
# image/png
# image/svg+xml
text/html htm HTML HTM
text/plaintxt text TXT TEXT java c c++ cpp pl cc h
image/gif gif GIF
image/ief ief
image/jpeg jpeg jpg jpe JPG
image/tiff tif
image/x-xwindowdumpxwd
application/postscriptai eps ps
application/rtf rtf
application/x-tex tex
application/x-troff tr roff
audio/basicau
audio/midimidi mid
audio/x-aifcaifc
audio/x-aiffaif aiff
audio/x-mpegmpeg mpg
audio/x-wavwav
video/mpegmpeg mpg mpe
video/quicktimeqt mov
video/x-msvideo avi

# TEXT TYPES

text/x-speech talk
text/css css
text/csv csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap xbm
# X-Windows pixelmap (8-bit color)
image/x-xpixmap xpm
# Portable Network Graphics
image/png png
# Scalable Vector Graphics
image/svg+xml
# Image Exchange Format (RFC 1314)
image/iefief
# RGB
image/rgbrgb
# Group III Fax (RFC 1494)
image/g3faxg3f
# X Windowdump format
image/x-xwindowdumpxwd
# Macintosh PICT format
image/x-pictpict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymappgm
# PBM (UNIX PPM package)
image/x-portable-bitmappbm
# PNM (UNIX PPM package)
image/x-portable-anymapnm
# Microsoft Windows bitmap
image/x-ms-bmpbmp
# CMU raster
image/x-cmu-rastererras
# Kodak Photo-CD
image/x-photo-cdpced
# Computer Graphics Metafile
image/cmgcmgm
# CALS Type 1 or 2
image/x-calsmilcal
# Fractal Image Format (Iterated Systems)
image/fiffif
# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsfdsf
# CMX vector image (Corel)
image/x-cmxcmlx
# Wavelet-compressed (Summus)
image/waveletwii
# AutoCad Drawing (SoftSource)
image/vnd.dwgwdwg
# AutoCad DXF file (SoftSource)
image/vnd.dxfdfxdf
# Simple Vector Format (SoftSource)
image/vnd.svfsfvf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic""audio - 8-bit u-law PCM"
audio/basicau snd
# Macintosh audio format (AIpple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav wav
# MPEG audio
audio/x-mpeg mpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2 mpega mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# Rapid Transit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudiora ram
# MIDI music data
x-music/x-midi mmid
# Koan music data (SSayo)
application/vnd.koan skp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpeg mpg mpe
# MPEG-2 video
video/mpeg-2 mpev mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-moviemovie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivo viv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED
# Macintosh Binhexed archive
application/mac-binhex40hqx
# Macintosh Stuffit Archive
application/x-stuffitsit sea
# Fractal Image Format
application/fractalsfif
# "Binary UUencoded"
application/octet-stream bin uu
# PC executable
application/octet-stream exe
# "WAIS ""sources"
application/x-wais-sources src wsrc
# NCSA HDF data format
application/hdfdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript js mocha
# UNIX bourne shell program
application/x-shsh
# UNIX c-shell program
application/x-cshcsh
# Perl program
application/x-perpl
# Tcl (Tool Control Language) program
application/x-tcltcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplashspl
# mBED multimedia data (mBED)
application/mbedletmbed
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpointppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asapsasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT
# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs

# OLE Object (Microsoft/NCompass)
application/x-oleobjectods

# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp

# Visual Basic objects (Amara)
application/x-webbasicwba

# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm

# client-server objects (Wayfarer Communications)
x-script/x-wxfclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com

# Pointcast news data (Pointcast)
application/x-pcnpcn

# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls

# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt

# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp

# SourceView document (Dataware Electronics)
application/vnd.svd svdsvd

# Net Install - software install (20/20 Software)
application/x-net-installins

# Carbon Copy - remote control/access (Microcom)
application/ccvccv

# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrm lvrm

# WIRL - VRML data (VREAM)
x-world/x-vreamvrm lvrm

# Play3D 3d scene data (Play3D)
application/x-p3dp3d

# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr

# WebActive 3d data (Plastic Thought)
x-world/x-wrwrwr

# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf
# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica

# Computational meshes for numerical simulations
x-model/x-mesh

# Vis5D 5-dimensional data
application/vis5d5d

# IGES models -- CAD/CAM (CGM) data
application/iges

# Autocad WHIP vector drawings
drawing/x-dwf

drawing/x-dwf

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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/JCacheCache.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/caffeine/CaffeineCache.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheCache.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/JCacheCacheManager.java
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  jar/org/springframework/scheduling/quartz/SchedulerContextAware.java

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  jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/cache/jcache/interceptor/CachePutOperation.java
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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/MimeMessagePreparator.java
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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/MailAuthenticationException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/MailParseException.java

1.439 netty-resolver 4.1.55.Final

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* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
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* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
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* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/InetNameResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1117259316_1608163224.83/0/netty-resolver-4-1-55-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java

1.440 brave-instrumentation-servlet 5.12.3
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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/recompile.java
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1.445 core-util-is 1.0.2

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java

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jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PoolChunkMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/HeapByteBufUtil.java
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jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
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jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/UnsafeByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
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jar/io/netty/buffer/ReadOnlyByteBuf.java
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jar/io/netty/buffer/PoolChunk.java
*/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
1.447 angular-socket-io 0.7.0

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1.448 jennifer 1.4.1

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1.449 postgresql 42.2.14

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1.450 angular-common 9.0.7

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1.451 jnr-ffi 2.1.10

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1.456 spring-cloud-netflix-hystrix

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1.458 httpcomponents-client 4.5.13

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* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
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* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1.jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java

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* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/xml/SimplePropertyNamespaceHandler.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
  jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
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* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/PropertyEditorRegistry.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/annotation/Configurable.java
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* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
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jar/org/springframework/beans/factory/BeanInitializationException.java
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jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
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jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
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jar/org/springframework/beans/factory/parsing/SourceExtractor.java
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jar/org/springframework/beans/support/ResourceEditorRegistrar.java
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jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
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1.467 bcprov-ext-jdk15on 1.60

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 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
 * effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

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/**
* SPHINCS-256 signer.
* <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation
produces
* detached signatures.
* </p>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/internal/OnlyOnceLoggingDenyMeterFilter.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/FormattingTuple.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/PoolingHttpClientConnectionManagerMetricsBinder.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Timer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/OnCompletionAsyncListener.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedScheduledExecutorService.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/InstrumentedQueuedThreadPool.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedRunnable.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/WarnThenDebugLogger.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedCallable.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyServerThreadPoolMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyConnectionMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/TimerHandler.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsConnectionPoolListener.java

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/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/logging/LoggingMeterRegistry.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/MultiGauge.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/util/NamedThreadFactory.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/push/PushMeterRegistry.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/binder/kafka/KafkaConsumerMetrics.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/ipc/http/HttpURLConnectionSender.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/ipc/http/OkHttpSender.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/ipc/http/ReactorNettySender.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/StrongReferenceGaugeFunction.java  
/ /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources.jar/io/micrometer/core/instrument/StrongReferenceGaugeFunction.java
jar/io/micrometer/core/ipc/http/HttpStatusClass.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/ipc/http/HttpSender.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/push/PushRegistryConfig.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/util/internal/logging/AbstractInternalLogger.java
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jar/io/micrometer/core/util/internal/logging/Slf4JLogger.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/util/internal/logging/Slf4JLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/step/StepRegistryConfig.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/cumulative/CumulativeDistributionSummary.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/noop/NoopGauge.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/internal/Mergeable.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/Measurement.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisher.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/step/StepMeterRegistry.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/distribution/AbstractTimeWindowHistogram.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/search/MeterNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/annotation/Incubating.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/MockClock.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/noop/NoopTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/aop/TimedAspect.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardConfig.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/distribution/HistogramSupport.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/noop/NoopTimeGauge.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/composite/CompositeCustomMeter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/tomcat/TomcatMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/BaseUnits.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/db/DatabaseTableMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherCommand.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/DefaultLongTaskTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/lang/NonNull.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/function/FunctionTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/distribution/PercentileHistogramBuckets.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/search/RequiredSearch.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/MeterBinder.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowPercentileHistogram.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/MeterFilter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/simple/SimpleMeterRegistry.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/util/StringEscapeUtils.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/cache/CaffeineCacheMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/noop/package-info.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Metrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/composite/CompositeMeterRegistry.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/push/package-info.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/StepDouble.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/AbstractTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/TimeGauge.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/composite/AbstractCompositeMeter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardDistributionSummary.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardClock.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/package-info.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/ClassLoaderMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/ClassLoadingMetrics.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/system/UptimeMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmCompilationMetrics.java
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1.471 google-uuid v1.2.0

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2.2.3.RELEASE

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1.473 ribbon-httpclient 2.3.0

1.474 feign-slf4j 10.10.1
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.489 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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1.491 kin-openapi 0.20.0

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jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslContext.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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1.500 msx-platform-go-client 1.0.4

1.500.1 Available under license:

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openapi: 3.0.0
info:
contact:
  email: somecontact@cisco.com
  name: Cisco Systems Inc.
  url: http://www.cisco.com
description: MSX Platform SDK
license:
name: Apache License Version 2.0
url: http://www.apache.org/licenses/LICENSE-2.0.html
termsOfService: http://www.cisco.com
title: KAKAPO - MSX SDK
version: 3.9.0
servers:
- url: //localhost:8765
security:
- bearerAuth: []
paths:
/consume/api/v8/products:
get:
  operationId: getProductsPage
  parameters:
- explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format: int32
    minimum: 0
    type: integer
    style: form
- explode: true
  in: query
  name: pageSize
  required: true
  schema:
    example: 10
    format: int32
    maximum: 1000
    minimum: 1
    type: integer
    style: form
responses:
"200":
  content:
    application/json:
      example:
        page: 0
        pageSize: 10
        hasNext: false
        hasPrevious: false
        contents:
        - id: ea557db8-391c-4c67-a504-c546e367868f
          name: vbranch
          label: cisco.catalog.service.vbranch.name
version: "1"
description: cisco.catalog.service.vbranch.description
image: /services/vbranch/images/icons/image_vbranch_service.svg
orderLimit: 1
multipleInstanceAllowed: false
price: 500
options: []
properties: []
configuration:
  device: "false"
  parts: "2"
  showOffers: "true"
  validation: none
isResource: false
hasChildren: false
serviceExtensions: []
serviceConfigQueryRootXPaths: []
- id: 1a302d7c-5311-4fdf-aa99-ca99dec586b9
  name: vbranch
  label: cisco.catalog.service.sdwan.name
  version: "1"
  description: cisco.catalog.service.sdwan.description
  image: /services/sdwan/images/icons/image_sdwan_service.svg
  orderLimit: 1
  multipleInstanceAllowed: false
  price: 500
  options: []
  properties: []
  configuration:
    device: "false"
    parts: "2"
    showOffers: "true"
    validation: none
  isResource: false
  hasChildren: false
  serviceExtensions: []
  serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/ProductsPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
summary: Returns a page of products.
tags:
- Products
post:
operationId: createProduct
requestBody:
content:
application/json:
example:
name: vbranch
label: cisco.catalog.service.vbranch.name
version: "1"
description: cisco.catalog.service.vbranch.description
image: /services/vbranch/images/icons/image_vbranch_service.svg
orderLimit: 1
multipleInstanceAllowed: false
price: 500
options: []
properties: []
configuration:
  device: "false"
  parts: "2"
  showOffers: "true"
  validation: none
isResource: false
hasChildren: false
serviceExtensions: []
serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/ProductCreate'
required: true
responses:
"201":
  content:
    application/json:
      example:
        id: ea557db8-391c-4c67-a504-c546e367868f
        name: vbranch
        label: cisco.catalog.service.vbranch.name
        version: "1"
        description: cisco.catalog.service.vbranch.description
        image: /services/vbranch/images/icons/image_vbranch_service.svg
        orderLimit: 1
        multipleInstanceAllowed: false
        price: 500
        options: []
        properties: []
        configuration:
          device: "false"
          parts: "2"
          showOffers: "true"
        validation: none
        isResource: false
        hasChildren: false
        serviceExtensions: []
        serviceConfigQueryRootXPaths: []
        schema:
          $ref: '#/components/schemas/Product'
        description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
schema:
  $ref: '#/components/schemas/Error'
  description: Internal Server Error
summary: Creates a product.
tags:
- Products
/consume/api/v8/products/count:
  get:
    operationId: getProductsCount
    responses:
      "200":
        content:
          application/json:
            example: 11
            schema:
              format: int64
              type: integer
            description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Bad Request
      "401":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthenticated
      "403":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthorized
      "500":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Internal Server Error
summary: Returns count of products.
tags:
- Products
/consume/api/v8/products/{id}:
  delete:
    operationId: deleteProduct
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Deletes a product.
tags:
- Products
get:
  operationId: getProduct
  parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: ea557db8-391c-4c67-a504-c546e367868f
            name: vbranch
            label: cisco.catalog.service.vbranch.name
            version: "1"
            description: cisco.catalog.service.vbranch.description
            image: /services/vbranch/images/icons/image_vbranch_service.svg
            orderLimit: 1
            multipleInstanceAllowed: false
            price: 500
            options: []
            properties: []
            configuration:
              device: "false"
              parts: "2"
              showOffers: "true"
            validation: none
            isResource: false
            hasChildren: false
            serviceExtensions: []
            serviceConfigQueryRootXPaths: []
            schema:
              $ref: '#/components/schemas/Product'
            description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a product.
tag:
  - Products
put:
  operationId: updateProduct
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
  requestBody:
    content:
      application/json:
        example:
          name: vbranch
          label: cisco.catalog.service.vbranch.name
          version: "1"
          description: cisco.catalog.service.vbranch.description
          image: /services/vbranch/images/icons/image_vbranch_service.svg
          orderLimit: 1
          multipleInstanceAllowed: false
          price: 500
          options: []
          properties: []
          configuration:
            device: "false"
parts: "2"
showOffers: "true"
validation: none
isResource: false
hasChildren: false
serviceExtensions: []
serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/ProductUpdate'
required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: ea557db8-391c-4c67-a504-c546e367868f
          name: vbranch
          label: cisco.catalog.service.vbranch.name
          version: "1"
          description: cisco.catalog.service.vbranch.description
          image: /services/vbranch/images/icons/image_vbranch_service.svg
          orderLimit: 1
          multipleInstanceAllowed: false
          price: 500
          options: []
          properties: []
          configuration:
            device: "false"
            parts: "2"
            showOffers: "true"
            validation: none
            isResource: false
            hasChildren: false
            serviceExtensions: []
            serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/Product'
description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
        schema:
summary: Update a product.
tags:
- Products
/consume/api/v8/offers:
get:
operationId: getOffersPage
parameters:
- explode: true
  in: query
  name: productId
  required: false
  schema:
    format: uuid
    type: string
    style: form
- explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format: int32
    minimum: 0
    type: integer
    style: form
- explode: true
  in: query
  name: pageSize
  schema:
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```
requests:
"200":
  content:
    application/json:
      example:
        page: 0
        page_size: 10
        has_next: false
        has_previous: false
        contents:
        - id: e3733184-09fa-4de1-90e2-9ca233d5999a
          name: branches
          label: cisco.consume.service.vbranch.offer.name
          description: cisco.consume.service.vbranch.offer.description
          product_id: 46bad1ba-2704-419d-b9b4-f1cdf79da4f
          version: 1
          display_order: 1
          image: /services/vbranch/images/icons/image_vbranch_service.svg
          supported_properties:
            - Basic-small
          supported_options:
            - name: Template_Development_Environment
              value: "Yes"
            - name: Zero_Touch_Deployment
              value: "Yes"
            - name: Custom_Service_Chaining
              value: "Yes"
            - name: Third_Party
              value: "Yes"
        - id: 90521e4f-8074-458c-b278-2144e0f53b5a
          name: cisco.consume.service.manageddevice.label
          label: cisco.consume.manageddevice.offer.manageddevice.full
          description: cisco.consume.service.manageddevice.description.label
          product_id: c9651078-b8d9-4018-bf25-8be6b6e06d85
          version: 1
          display_order: 1
          image: services/manageddevice/images/managed-cpe.svg
          supported_properties:
            - Basic-small
          supported_options:
```

- name: Centralized_device_management
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"
schema:
  $ref: '#/components/schemas/OffersPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of product offers.
tags:
- Offers
post:
  operationId: createOffer
requestBody:
  content:
    application/json:
      example:
        name: cisco.consume.service.manageddevice.label
        label: cisco.consume.manageddevice.offer.manageddevice.full
        description: cisco.consume.service.manageddevice.description.label
        productId: 83432bdd-1293-4bf3-ab53-77a199e2beff
version: 1
displayOrder: 1
image: services/manageddevice/images/managed-cpe.svg
price: test
type: test
supportedProperties:
- Basic-small
supportedOptions:
- name: Centralized_device_management
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"
schema:
  $ref: '#/components/schemas/OfferCreate'
required: true
responses:
"201":
  content:
    application/json:
      example:
        id: e3733184-09fa-4dc1-90e2-9ca233d5999a
        name: cisco.consume.service.manageddevice.label
        label: cisco.consume.manageddevice.offer.manageddevice.full
        description: cisco.consume.service.manageddevice.description.label
        productId: 46bad1ba-2704-419d-b9b4-f1cdff79da4f
        version: 1
displayOrder: 1
image: services/manageddevice/images/managed-cpe.svg
price: test
type: test
supportedProperties:
- Basic-small
supportedOptions:
- name: Centralized_device_management
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"
schema:
  $ref: '#/components/schemas/Offer'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Creates a product offer.
tags:
- Offers
/consume/api/v8/offers/count:
  get:
    operationId: getOffersCount
parameters:
- explode: true
  in: query
  name: productId
  required: false
  schema:
    format: uuid
    type: string
    style: form
responses:
"200":
  content:
    application/json:
      example: 7
      schema:
        format: int64
        type: integer
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns count of product offers.
tags:
- Offers
/consume/api/v8/offers/{id}:
  delete:
    operationId: deleteOffer
    parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
    responses:
      "204":
        description: No Content
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/Error"
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/Error"
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/Error"
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: "#/components/schemas/Error"
      description: Internal Server Error
summary: Deletes a product offer
tags:
  - Offers
get:
  operationId: getOffer
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: e3733184-09fa-4dc1-90e2-9ca233d5999a
            name: branches
            label: cisco.consume.service.vbranch.offer.name
            description: cisco.consume.service.vbranch.offer.description
            productId: 46bad1ba-2704-419d-b9b4-f1cddf79da4f
version: 1
displayOrder: 1
image: /services/vbranch/images/icons/image_vbranch_service.svg

supportedProperties:
- Basic-small

supportedOptions:
- name: Template_Development_Environment
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Custom_Service_Chaining
  value: "Yes"
- name: Third_Party
  value: "Yes"

schema:
  $ref: '#/components/schemas/Offer'
description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a product offer.
tags:
- Offers

put:
operationId: updateOffer
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        name: branches
        label: cisco.consume.service.vbranch.offer.name
        description: cisco.consume.service.vbranch.offer.description
        productId: 46bad1ba-2704-419d-b9b4-f1cddf79da4f
        version: 1
        displayOrder: 1
        image: /services/vbranch/images/icons/image_vbranch_service.svg

  supportedProperties:
    - Basic-small

  supportedOptions:
    - name: Template_Development_Environment
      value: "Yes"
    - name: Zero_Touch_Deployment
      value: "Yes"
    - name: Custom_Service_Chaining
      value: "Yes"
    - name: Third_Party
      value: "Yes"

schema:
  $ref: '#/components/schemas/OfferUpdate'
required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: e3733184-09fa-4dc1-90ce2-9ca233d5999a
          name: branches
          label: cisco.consume.service.vbranch.offer.name
          description: cisco.consume.service.vbranch.offer.description
          productId: 46bad1ba-2704-419d-b9b4-f1cddf79da4f
version: 1
displayOrder: 1
image: /services/vbranch/images/icons/image_vbranch_service.svg
supportedProperties:
- Basic-small

supportedOptions:
- name: Template_Development_Environment
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Custom_Service_Chaining
  value: "Yes"
- name: Third_Party
  value: "Yes"

schema:
  $ref: '#/components/schemas/Offer'
description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Update a product offer.
tags:
- Offers
/manage/api/v8/devices:
  get:
    operationId: getDevicesPage
    parameters:
    - explode: true
      in: query
      name: deviceIds
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: serviceIds
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: types
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: serialKeys
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: serviceTypes
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
    - explode: true
      in: query
      name: models
      required: false
      schema:
        $ref: '#/components/schemas/StringArray'
        style: form
- explode: true
  in: query
  name: subtypes
  required: false
  schema:
    $ref: '#/components/schemas/StringArray'
    style: form
- explode: true
  in: query
  name: names
  required: false
  schema:
    $ref: '#/components/schemas/StringArray'
    style: form
- explode: true
  in: query
  name: versions
  required: false
  schema:
    $ref: '#/components/schemas/StringArray'
    style: form
- explode: true
  in: query
  name: tenantIds
  required: false
  schema:
    $ref: '#/components/schemas/UuidArray'
    style: form
- explode: true
  in: query
  name: severities
  required: false
  schema:
    $ref: '#/components/schemas/StringArray'
    style: form
- explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format: int32
    minimum: 0
    type: integer
    style: form
- explode: true
  in: query
  name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
- explode: true
  in: query
  name: sortBy
  required: false
  schema:
    example: name
    type: string
    style: form
- explode: true
  in: query
  name: sortOrder
  required: false
  schema:
    enum:
    - asc
    - desc
    type: string
    style: form
responses:
"200":
  content:
    application/json:
      example:
        page: 0
        pageSize: 3
        hasNext: true
        hasPrevious: false
        contents:
        - id: 57ace99e-5301-44b1-87d8-9383feb705c3
          name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
          model: CISCO CSR 1000v
        - id: 57ace99e-5301-44b1-87d8-9383feb705c3
          name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
          model: CISCO CSR 1000v
        type: manageddevice
        managed: true
        onboardType: direct
        onboardInformation:
          serviceType: manageddevice
          variables:
{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$H9SrDINF1YkYD7/x9FSYHnioxeAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$SiQUd4kW5VqGe/6jlLziV59kU3n4DKKumIBgVGMCRIRV6dcRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}

address: 10.254.0.3
always-allocate-ip: "true"
ned-id: cisco-ios
onboarding-template-done: "true"
password: $8$H9SrDINF1YkYD7/x9FSYHnioxeAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh
port: "22"
secondary-password:
$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:

devide-type: cli

status:

healthStatus:

value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:

healthStatus:

value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:

healthStatus:

value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:

healthStatus:

value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:

healthStatus:

value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:

healthStatus:

value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:
id: 2d3f45a6-4862-4ecf-b228-4736f0a678e5
name: device-name-27a878a4-721e-4758-82b3-c05de0c7de0b
model: CISCO CSR 1000v
serialKey: 36unrHXMr
version: "123"
serviceType: manageddevice
managed: true
onboardType: direct
onboardInformation:
  serviceType: manageddevice
variables:
  "{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$lh9SrDINF1YkYD7/x9FSYHnoxexAY4AEcncCGbe1ZWGOGx1nk6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQUd4kW5VqGe/6jLzV59kU3n4DKKumlBgVGMCRIV6dcRzybuNJ16cGZE+G+A",""onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+i9hilUJ1AYFE10Ghls8IB43he/+SGbm45Bi0ETyP9Wq90km3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hYyc25G7M6wWBsx9+h5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}]'
address: 10.254.0.3
always-allocate-ip: "true"
ned-id: cisco-ios
onboarding-template-done: "true"
password: $8$lh9SrDINF1YkYD7/x9FSYHnoxexAY4AEcncCGbe1ZWGOGx1nk6+EdsPYacwXUdh
port: "22"
secondary-password: $8$maC3mSZ0hYyc25G7M6wWBsx9+h5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:
  value: FAIR
  severity: "5"
lastUpdated: 2020-08-06T18:17:21Z
lastUpdatedMessage: Updated by system
statusDetails:
  healthStatus:
    value: UNKNOWN
    severity: "3"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser
pnpStatus:
value: UNKNOWN
severity: "3"
lastUpdated: 2020-08-06T18:17:21Z
lastUpdatedMessage: Updated by superuser
lifeCycleStatus:
  value: UNREGISTERED
  severity: "5"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser
syncStatus:
  value: UNKNOWN
  severity: "3"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser
tunnelStatus:
  value: UNKNOWN
  severity: "3"
  lastUpdated: 2020-08-06T18:17:21Z
  lastUpdatedMessage: Updated by superuser
tenantId: a76407a2-d293-4e19-aaea-d5d4da4f4b24
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
userId: c0c3c0f0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T18:17:21Z
modifiedOn: 2020-08-06T18:17:21Z
id: 83a38a3e-5b26-4d87-b5f7-b1c7-6729641a8e51
name: device-name-145611c2-f099-4624-9b03-98fdd9c6d830
model: CISCO CSR 1000v
type: CISCO CSR 1000v
serialKey: vvKqaftXraGq
version: "123"
serviceType: manageddevice
managed: true
onboardType: direct
onboardInformation:
serviceType: manageddevice
variables:
'"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$//H9SrDINFI1Yk YD7/x9FSYHn0xeAY4AEcncCGbe1ZWGOGx1nk6+EdsPYacwXUd","CPE_SNMP_V3_AUTH_PASS":"$8$B nSiQUd4kW5VqGe/6jLziV59kU3n4DKKumI5gV7GMCRIv6deRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9n9rctjB+91hlUJTAYFE10Ghl+8IB43he/+sGbnar45B10ETyP9W9q90km3gbdh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBsx9+h5ys1Ehin/SJFluwNjh50BQpR0sSpGOX08v6Gd","CUSTOMER_USERNAME":"vmsmd33"'}
address: 10.254.0.3
always-allocate-ip: "true"
ned-id: cisco-ios
onboarding-template-done: "true"
password: $8$/H9SrDINFI1Yk YD7/x9FSYHn0xeAY4AEcncCGbe1ZWGOGx1nk6+EdsPYacwXUd
port: "22"
secondary-password:
$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:
  value: FAIR
  severity: "5"
lastUpdated: 2020-08-06T18:17:21Z
lastUpdatedMessage: Updated by system
statusDetails:
  healthStatus:
    value: UNKNOWN
    severity: "3"
  pnpStatus:
    value: UNKNOWN
    severity: "3"
  lifeCycleStatus:
    value: UNREGISTERED
    severity: "5"
  syncStatus:
    value: UNKNOWN
    severity: "3"
  tunnelStatus:
    value: UNKNOWN
    severity: "3"
tenantId: a76407a2-d293-4e19-aaea-d5d4da4f4b24
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T18:17:21Z
modifiedOn: 2020-08-06T18:17:21Z
schema:
  $ref: '#/components/schemas/DevicesPage'
description: OK
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of devices.
tags:
- Devices
post:
  operationId: createDevice
requestBody:
  content:
    application/json:
      example:
        tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357
        name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
        model: CISCO CSR 1000v
        type: CISCO CSR 1000v
        serviceType: manageddevice
        serialKey: CLctKw8azMR
        version: "123"
        managed: true
        onboardType: direct
        onboardInformation:
          serviceType: manageddevice
          variables:
            "ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$WGaGi3T56LL3F420kYnYD7/x9FSYHmoxeAY4AEcncCGbE1ZWGOGx1nknn6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQUd4kW5qGe/6JLiV59kU3n4DKKumIBgVGMCRIV6dCRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+i9hIUjtAYFE10Ghi+81B43he+iSGbnv45Bi0ETyP9Wq90km3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBSx9+h5ys1Ehin/SJFIuwNjh50BQpR0s
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Creates a device.
tags:
  - Devices
/manage/api/v8/devices/{id}:
delete:
  operationId: deleteDevice
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
            description: Bad Request
        "401":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
                description: Unauthenticated
            "403":
              content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a device.
tags:
- Devices
get:
  operationId: getDevice
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"200":
  content:
    application/json:
      example:
        id: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
        name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
        model: CISCO CSR 1000v
        type: CISCO CSR 1000v
        tags:
          resourceProvider: nso
          serialKey: 97K7C3YDPY1
          version: 16.9.5
        serviceInstanceId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
        subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
        serviceType: manageddevice
        managed: true
        onboardType: pnp
        onboardInformation:
serviceType: manageddevice
variables: "{"ONBOARDING_INTERFACE":"GigabitEthernet1","CPE_HOSTNAME":"CPE-828dcb62-2345-4bf-5bf-5db20a95cd3"}

day0-file: CPE_day0_base_config.txt,CPE_day0_tunnel_config.txt
always-allocate-ip: "true"
ned-id: cisco-ios

encryptedVariables:
{""CPE_SNMP_V3_AUTH_PASS":"$8$ZZFx9L6bG368G/fSsluSkpScU2u86Ecsi5ieia61JKk05ah/L157ggRNgcJhIn vp0",""CPE_SNMP_V3_PRIV_PASS":"$8$k5IODLmeuGnar7fJWDMat58fSa5vCR4YcKqnonPfj2a2+9bdoxMMP UGKLVIEK7"}"

platform-device-subtype: ISR
password: "$8$2NB0CYn00o97Kf3yUcaQavEo+R2URp2N6fpLAv14GbLJzbGvAXVlssfMtBfw6Pjn
port: "22"
platform-device-category: CPE
secondary-password: "$8$IPoNL0lYbqWf/k7DtnLdv1YsoiqSmpndAxEayJT9qa0cQriDByU9AmWtixjiMlпv
platform-device-type: CPE
device-type: cli
serialKey: 97K7C3YDPY1
username: vmsmh33
attributes:

templateDetails: "{"templateId":"7919b9e2-chbb-44f4-9dd1-f29f37d91144","templateName":"managed-device-regression-test-template-80f3f736-1692-4128-92f1-b109c1bf1d3","deviceParams":{"name":"DEVICE_NAME","hintText":"","label":"DEVICE_NAME","type":"String","displayType":"Input","allowedValues":"","value":null,"toolTipText":null},"templateHistoryId":null,"appliedBy":null,"appliedOn":null,"editedBy":null,"previousTemplateHistoryId":null}
"}

address: "{"address1":"88 Queens Quay W, Toronto, ON M5J, Canada","lat":"43.6411344","lng":"-79.37703469999997"}

deviceTypeName: CISCO CSR 1000v

siteName: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
deviceInterfaces:
{""name":"GigabitEthernet1","roles":["onboard","wan"],"snmp":"GigabitEthernet1","nedId":"cisco-ios"}"
deviceId: CPE-828dcb62-2345-4bf-5bf-5db20a95cd3
deviceName: CPE-828dcb62-2345-4bf-5bf-5db20a95cd3
deviceSerial: 97K7C3YDPY1
tenantDisplayName: /display-name-d5e9dc30-0232-499b-a8f3-3962c3183159
tenantName: d5c9dc30-0232-499b-a8f3-3962c3183159
siteDisplayName: HvE8gXV1YUWo27u5ryycri9MmUdolqCsgcb9W04VlhaUsghyoVOgyVgwKR7NKuF
name: CPE-828dcb62-2345-4bf-5bf-5db20a95cd3
model: CISCO CSR 1000v
serialKey: 97K7C3YDPY1
devicePassword: "$8$euuSrkPi/hr71+ujf4Iq608uX0Rqln+82plXTxDL6d23dMVkho05DpxYeM/VBT
status: value: GOOD
severity: "1"
lastUpdated: 2020-08-04T21:01:46Z
lastUpdatedMessage: Updated by system
statusDetails:
lifeCycleStatus:
  value: Onboarded
  severity: "1"
  lastUpdated: 2020-08-04T21:01:46Z
  lastUpdatedMessage: Updated by system
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
providerId: fe3ad89e-449f-42f2-b4f8-b10ab7bc0266
userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-04T20:59:34Z
modifiedOn: 2020-08-04T21:01:46Z
schema:
  $ref: '#/components/schemas/Device'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a device.
crypto pki certificate chain SLA-TrustPoint

license udi pid CSR1000V sn 97K7C3YDPY1

license smart enable
diagnostic bootup level minimal

username admin privilege 15 password 7 1248333A21395C0F6E
username msx-user privilege 15 password 7 08707A633A2B551C56
username vmsmd33 privilege 15 secret 5

redundancy
crypto ikev2 authorization policy default

crypto ikev2 client
  peer 1 192.171.16.177
  client connect Tunnel0

redundancy
crypto ipsec security-association
idle-time 600

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crypto ikev2 profile MGMT-OVERLAY

\$1SDWd4$hiv8Un3Pfc17.NJUuESCZ/\n
//n mode transport\n\ncrypto ipsec profile MGMT-OVERLAY\n\nset transform-set\nMGMT-ENCR\nset ikev2-profile MGMT-OVERLAY\n\ncrypto call\n\nadmission limit ike in-negotiation-sa 30\n\ninterface Tunnel0\n\nset ip mtu 1400\n\nset ikev2-profile MGMT-OVERLAY\n\nset transform-set MGMT-ENCR\n\ninterface Tunnel0\n\nset transport ipsec ipv4\n\ninterface GigabitEthernet1\n\ndescription WAN interface\n\nnegotiation auto\n\nno ntp enable\n\no mop sysid\n\nno ntp forward-protocol\n\n\n\n\n\ninterface GigabitEthernet1\n\ndescription WAN interface\n\nno ntp enable\n\no mop sysid\n\nno ntp forward-protocol\n\n\n\n\n\n\n\n\n\n\n\n\ninterface GigabitEthernet1\n\ndescription WAN interface\n\nno ntp enable\n\no mop sysid\n\nno ntp forward-protocol\n\n\n\n\n\n\n\n\n\n\n\n\ninterface GigabitEthernet1\n\ndescription WAN interface\n\nno ntp enable\n\no mop sysid\n\nno ntp forward-protocol\n\n\n\n\n\n\n\n\n\n\n\n\ninterface GigabitEthernet1\n\ndescription WAN interface\n\nno ntp enable\n\no mop sysid\n\nno ntp forward-protocol\n\n\n\n\n\n\n\n\n\n\n\n\ninterface GigabitEthernet1\n\ndescription WAN interface\n\nno ntp enable\n\o
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Detach device templates that are already attached to a device.
tags:
- Devices
get:
  operationId: getDeviceTemplateHistory
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
  "200":
    content:
      application/json:
        schema:
          items:
            $ref: '#/components/schemas/DeviceTemplateHistory'
          type: array
    description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
application/json:
schema:
   $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns device template history.
tags:
- Devices
post:
  operationId: attachDeviceTemplates
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        templateDetails:
        - templateId: e7e20070-9d67-40a8-a21d-f655606b7421
          templateParams:
            - name: name1
              value: value10461b304-da18-42bd-a48b-502d8e5166a4
            - name: name2
              value: value217c83dd3-f732-4a36-ae27-d86599c7f513
        - templateId: 87710499-3431-4c53-8ce2-c28170c261e7
          templateParams:
            - name: name1
              value: value1fc9ca565-8a74-401a-9dce-5fe35d203150
            - name: name2
              value: value2bfde5275-8d32-4e2c-b023-7b987cb9a1ff
      schema:
        $ref: '#/components/schemas/DeviceTemplateAttachRequest'
summary: Attaches one or more device templates to a device instance.
tag: Devices
put:
operationId: updateDeviceTemplates
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/DeviceTemplateUpdateRequest'
        required: true
responses:
"200":
  content:
    application/json:
      schema:
        items:
          $ref: '#/components/schemas/DeviceTemplateHistory'
        type: array
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Update device templates that are already attached to a device.
tags:
- Devices
/manage/api/v8/devices/{id}/templates/{templateId}:
delete:
operationId: detachDeviceTemplate
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: false
  in: path
  name: templateId
  required: true
  schema:
    format: uuid
    type: string
    style: simple
responses:
"200":
  content:
    application/json:
      schema:
        items:
          $ref: '#/components/schemas/DeviceTemplateHistory'
        type: array
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Detaches a template from a device.
tags:
- Devices
/manage/api/v8/devices/{id}/redeploy:
  post:
    operationId: redeployDevice
    parameters:
    - explode: false
      in: path
      name: id
required: true
schema:
  type: string
  style: simple
responses:
  "200":
    description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "409":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Conflict
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Dedeploys a device.
tags:
  - Devices
/manage/api/v8/devicetemplates:
  post:
    operationId: createDeviceTemplate
    requestBody:
      content:
        application/json:
          example:
            name: name-8d4a2628-06c0-436b-8a90-d90027917405
version: v1
serviceType: manageddevice
configContent: string
templateStandard: nso
tenantAccess:
  global: true
schema:
  $ref: '#/components/schemas/DeviceTemplateCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: beaf0bee-bdf9-4ade-993a-de352fa38bc7
          schema:
            $ref: '#/components/schemas/DeviceTemplate'
description: Created
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized
  "500":
    content:
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application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a device template.
tags:
- Device Templates
/manage/api/v8/devicetemplates/list:
  get:
    operationId: getDeviceTemplatesList
    parameters:
    - example: manageddevice
      explode: true
      in: query
      name: serviceType
      required: false
      schema:
        type: string
        style: form
    - example: d626f157-1d8d-4ed8-8b7a-66b7cb7e1e25
      explode: true
      in: query
      name: tenantId
      required: false
      schema:
        format: uuid
        type: string
        style: form
    responses:
      "200":
        content:
          application/json:
            example:
            - name: name-8d4a2628-06c0-436b-8a90-d90027917405
              version: v1
              serviceType: manageddevice
              templateStandard: nso
              id: beaf0bee-bd9f-4ade-993a-de352fa38bc7
              userId: f1a0f9cc-08c1-4190-98b9-48b0988b9c7f
              createdOn: 2020-08-06T19:37:55.615Z
            - name: name-5cba2b31-93e7-4968-8a3a-a20552bc527b
              version: v1
              serviceType: manageddevice
              templateStandard: nso
              id: 1f3098f9-884d-485a-b1cb-501067f5142a
              userId: c0c3cfff-05d1-11ea-b88a-a7053c652ef4
              createdOn: 2020-08-06T19:40:41.316Z
            - name: name-54852468-00ca-4d60-9764-5f207090954d
version: v1
serviceType: manageddevice
templateStandard: nso
id: 5af62fa7-c753-43a9-8b69-be87e08ab8f7
userId: e0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T19:41:23Z
- name: name-e24fe522-ca69-4be1-829b-518478e4d2ee
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: e7e20070-9d67-40a8-a21d-f655606b7421
  userId: e0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T18:26:28.021Z
- name: name-42e1aabb-45cf-4209-8de0-250aaaf88715
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: f3b096d8-5633-4956-bb2f-1aa8f0f5b122
  userId: e0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T19:41:09Z
- name: name-38bc5ad4-a94e-4904-a1ff-12add574efb
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 87710499-3431-4e53-8ce2-c28170c261e7
  userId: e0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T18:26:28.131Z
- name: managed-device-regression-test-template-80f3f736-1692-4128-92f1-b109c1bf12d3
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 5a6e44b7-987c-476f-9b52-b7506dfd0ac4
  userId: b77fb077-997a-401b-b6c8-08a4b89e383a
schema:
  items:
    $ref: '#/components/schemas/DeviceTemplate'
type: array
description: OK
"400":
content:
returns a list of device templates.

tags:
- Device Templates

/manage/api/v8/devicetemplates/{id}:

delete:

operationId: deleteDeviceTemplate

parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple

responses:
  "204":
    description: No Content

  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Bad Request

  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthenticated

  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthorized

  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Internal Server Error
summary: Returns a device template.
tags:
- Device Templates
/manage/api/v8/devicetemplates/{id}/access:
put:
opera\ionId: updateDeviceTemplateAccess
parameters:
- explode: false
  in: path
  name: id
required: true
schema:
  format: uuid
  type: string
  style: simple
requestBody:
  content:
    application/json:
      example:
        templateId: 49baa22e-9c25-4adc-ae30-21153965ea66
        tenantIds:
        - e6d0e662-ed66-43ab-977a-35ef6cafe10
      schema:
        $ref: '#/components/schemas/DeviceTemplateAccess'
      required: true
  responses:
    "200":
      content:
        application/json:
          example:
            successListOfTenants:
            - e6d0e662-ed66-43ab-977a-35ef6cafe10
            failureListOfTenants: []
          schema:
            $ref: '#/components/schemas/DeviceTemplateAccessResponse'
          description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthorized
    "404":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates device template access.
tags:
- Device Templates
/manage/api/v8/services:
  get:
    operationId: getServicesPage
    parameters:
    - allowEmptyValue: false
      explode: true
      in: query
      name: tenantIds
      required: false
    schema:
      items:
        format: uuid
        type: string
        type: array
        style: form
    - explode: true
      in: query
      name: page
      required: true
      schema:
        example: 0
        format: int32
        minimum: 0
        type: integer
        style: form
    - explode: true
      in: query
      name: pageSize
      required: true
      schema:
        example: 10
        format: int32
        maximum: 1000
        minimum: 1
        type: integer
        style: form
    responses:
      "200":

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- id: 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: 3d99211e-3095-489f-a5df-87780bbb99fd
  userId: fbcf7fa8-7cf8-42ce-8704-c66cfa42df9d
  subscriptionId: 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
  tenantName: 3d99211e-3095-489f-a5df-87780bbb99fd
  createdOn: 2020-08-06T20:26:45.956Z
  status:
    lifeCycleStatus: Ordering
  definitionAttributes:
    name: manageddevice
    id: 5872e764-c459-11e7-abc4-cec278b6b50a
    offerName: cisco.consume.service.manageddevice.label
    type: manageddevice
  attributes:
    template: manageddevice-2.0.ftl
    orchestrator: ncs
    incomplete: "true"
    version: "1"

- id: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
  userId: 876a8f91-ba41-40e5-813d-c2688baebd1a
  subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
  tenantName: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
  createdOn: 2020-08-06T20:22:56.414Z
  status:
    lifeCycleStatus: Ordering
  definitionAttributes:
    name: manageddevice
    id: 5872e764-c459-11e7-abc4-cec278b6b50a
    offerName: cisco.consume.service.manageddevice.label
    type: manageddevice
  attributes:
    template: manageddevice-2.0.ftl
    orchestrator: ncs
    incomplete: "true"
    version: "1"

- id: d5c9dc300232-4e8677d462dd49cab5298731a94e2da0-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
tenantId: 985b22a2-00a8-4cea-b9ed-50c76b2b5949
userId: c0c3ef0d-5d5-11ea-b888-a7053c652ef4
subscriptionId: d5c9dc00232-4e8677d462dd49cab5298731a94c2da0-manageddevice
tenantName: d5c9dc00-2a32-499b-a8f3-3962a3138159
createdOn: 2020-08-04T21:01:47.148Z
provisionedOn: 2020-08-04T21:01:47.093Z
status:
  lifecycleStatus: Provisioned
definitionAttributes:
    name: Managed Device
    id: 5872e764-c459-11e7-abc4-cec278b6b50a
    offerName: Managed Device
type: manageddevice
attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
platform-service-instance-id: d5c9dc00232-4e8677d462dd49cab5298731a94c2da0-manageddevice
devices: [{'status-message': 'Operation ADD on device CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3 with serial number 97K7C3YDPY1 was a SUCCESS', 'name': 'CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3'}]
name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
provisionTimestamp: Tue Aug 04 21:01:47 UTC 2020
provisionTimestampNumber: "1596574907112"
version: "1"
  id: b33666428865-5d0511e7935d41dc8288f7c76a4f8f3c-manageddevice
providerId: fe3ad89c-449f-42f2-b4f8-b10a7bc0266
tenantId: b3366642-8865-407f-a8e3-5f5a5686f7af
userId: 5915c04-8b9b-4480-b03-5f5c26e6ce7c
subscriptionId: b33666428865-5d0511e7935d41dc8288f7c76a4f8f3c-manageddevice
tenantName: b3366642-8865-407f-a8e3-5f5a5686f7af
createdOn: 2020-08-06T20:26:44.819Z
status:
  lifecycleStatus: Ordering
definitionAttributes:
    name: manageddevice
    id: 5872e764-c459-11e7-abc4-cec278b6b50a
    offerName: cisco.consume.service.manageddevice.label
type: manageddevice
attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
incomplete: "true"
version: "1"
schema:
  $ref: '#/components/schemas/ServicesPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of services.
tags:
  - Services
post:
  operationId: submitOrder
  parameters:
  - explode: true
    in: query
    name: productId
    required: true
    schema:
      format: uuid
type: string
style: form
  - explode: true
    in: query
    name: offerId
    required: true
    schema:
      format: uuid
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```json
{
  "type": "string",
  "style": "form",
  "requestBody": {
    "content": {
      "application/json": {
        "example": {
          "type": "request",
          "serviceType": "manageddevice",
          "action": "orderOffer",
          "payload": {
            "service": {
              "template": "manageddevice-2.0.ftl",
              "orchestrator": "ncs",
              "incomplete": "true",
              "name": "manageddevice",
              "id": "5872e764-c459-11e7-abc4-cec278b6b50a",
              "type": "manageddevice",
              "version": "1"
            },
            "tenant": {
              "id": "87f25b97-5eca-4f30-b72c-a6c1ee13fa87",
              "name": "b2b77db8-db9d-46b4-8db5-6da58b36984e"
            },
            "user": {
              "name": "Super",
              "id": "superuser"
            },
            "provider": {
              "id": "fe3ad89c-449f-42f2-b4f8-b10ab7bc0266",
              "name": "CiscoSystems"
            },
            "offer": {
              "id": "627a75ec-c459-11e7-abc4-cec278b6b50a",
              "name": "cisco.consume.service.manageddevice.label",
              "type": "full",
              "label": "cisco.consume.manageddevice.offer.manageddevice.full"
            },
            "cost": {
              "deviceTotal": "0",
              "deviceTotalType": "USD",
              "serviceTotal": "0",
              "serviceTotalType": "USD"
            }
          }
        }
      }
    }
  }
}
```
$ref: '#/components/schemas/LegacyServiceOrder'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          message: Order submitted successfully.
          transactionUUID: a25a8111-bced-4446-a9ad-d681b13d1b2d
          subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
          url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-cec278b6b50a
          status: success
          serviceInstanceIds:
            - 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
          sites: []
          schema:
            $ref: '#/components/schemas/LegacyServiceOrderResponse'
          description: Created
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Submits an order.
tags:
  - Services
put:
  operationId: updateOrder
parameters:
- explode: true
  in: query
  name: productId
  required: true
  schema:
    format: uuid
    type: string
    style: form
- explode: true
  in: query
  name: offerId
  required: true
  schema:
    format: uuid
    type: string
    style: form
requestBody:
  content:
    application/json:
      example:
        type: request
        serviceType: manageddevice
        action: orderOffer
        payload:
          service:
            template: manageddevice-2.0.ftl
            orchestrator: ncs
            incomplete: "true"
            name: manageddevice
            id: 5872e764-c459-11e7-abc4-cec278b6b50a
            type: manageddevice
            version: "1"
          tenant:
            id: b3366642-8865-407f-a8e3-5fa56868f74f
            name: 717fc5a0-e515-40dd-a2a9-2436d0b7af74
          user:
            name: Super
            id: superuser
          provider:
            id: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
            name: CiscoSystems
            offer:
              id: 627a75ec-c459-11e7-abc4-cec278b6b50a
              name: cisco.consume.service.manageddevice.label
              type: full
              label: cisco.consume.manageddevice.offer.manageddevice.full
        cost:
deviceTotal: "0"
deviceTotalType: USD
serviceTotal: "0"
serviceTotalType: USD
subscriptionDetail:
sites: []
serviceInstanceDetail:
tenantId: b3366642-8865-407f-a8e3-5fa56868f74f
tenantName: 717fc5a0-e515-40dd-a2a9-2436d0b7af74
serviceDowngrade: {}
nsoResponseTypes:
createOperation: pnp
updateOperation: pnp
deleteOperation: pnp
schema:
$ref: '#/components/schemas/LegacyServiceOrder'
required: true
responses:
"200":
content:
application/json:
example:
message: Edit order submitted successfully.
transactionUUID: 15acc700-dcba-4ece-85f5-0e2da9034019
url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-
cec278b6b50a
status: success
serviceInstanceIds:
- 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
sites: []
schema:
$ref: '#/components/schemas/LegacyServiceOrderResponse'
description: OK
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates an order.
tags:
- Services
/manage/api/v8/services/{id}:
delete:
  operationId: deleteService
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
  responses:
"204":
  description: No Content
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
$ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a service.
tags:
- Services
get:
  operationId: getService
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
          providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
          tenantId: 9b5b22a2-00a8-4cea-b9ed-50e76b2b5949
          userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
          subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
          tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159
          createdOn: 2020-08-04T21:01:47.148Z
          provisionedOn: 2020-08-04T21:01:47.148Z
          status:
            lifecycleStatus: Provisioned
definitionAttributes:
  name: Managed Device
  offerName: Managed Device
  id: 5872e764-c459-11e7-abc4-cc278b6b50a
type: manageddevice
attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
  platform-service-instance-id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
devices: '{"status-message": "Operation ADD on device CPE-82862-2345-48f-b5af-5d230a95cd3 with serial number 97K7C3YDPY1 was a SUCCESS", "name": "CPE-82862-2345-48f-b5af-5d230a95cd3", "attributes": [{"attrib-name": "ipaddress", "attrib-value": "10.254.0.1"}, {"attrib-
<table>
<thead>
<tr>
<th>name</th>
<th>description</th>
<th>required</th>
<th>schema</th>
</tr>
</thead>
<tbody>
<tr>
<td>serviceId</td>
<td></td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>serviceType</td>
<td></td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>deviceId</td>
<td></td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>parentId</td>
<td></td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>type</td>
<td></td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>managingControlPlaneId</td>
<td></td>
<td>false</td>
<td></td>
</tr>
</tbody>
</table>
name: showImage
required: false
schema:
  default: false
  type: boolean
  style: form
- explode: true
  in: query
name: page
required: true
schema:
  example: 0
  format: int32
  minimum: 0
  type: integer
  style: form
- explode: true
  in: query
name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 10
          hasNext: false
          hasPrevious: false
          contents:
          - id: 83e31860-d699-11ea-ab1f-85a66520c057
tenantId: 3ae1903b-a43e-4c18-9d01-983ef3b82eb5
name: Site One
description: A great description of site one.
image: ""
devices: []
status:
  type: health
  name: healthStatus
  value: unknown
  severity: "3"
lastUpdated: 2020-08-04T21:29:01.927Z
lastUpdatedMessage: unknown
createdOn: 2020-08-04T21:29:01.929Z
createdBy: 2817602d-ef21-49e3-acf6-f6c8f15a8d90
modifiedOn: 2020-08-04T21:29:01.929Z
modifiedBy: 2817602d-ef21-49e3-acf6-f6c8f15a8d90
- id: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
name: Site Two
description: A great description of site two.
image: ""
attributes:
tenantName: d5c9de30-0232-499b-a8f3-3962c3138159
contactEmail: ""
contactName: ""
latitude: "43.6411344"
siteDescription: A great description of site two.
location: 88 Queens Quay W, Toronto, ON M5J, Canada
longitude: -79.37703469999997
devices:
- deviceId: CPE-828dbcb62-2345-4b8f-b5af-5db230a95cd3
  serviceId: d5c9de300232-4e8677d4f62dd49cab5298731a94c2da0-manageddevice
  serviceType: manageddevice
  location:
    latitude: 43.6411344
    longitude: -79.37703469999997
status:
type: health
name: healthStatus
value: unknown
severity: "3"
lastUpdated: 2020-08-04T20:59:35.071Z
lastUpdatedMessage: unknown
createdOn: 2020-08-04T20:59:35.084Z
createdBy: superuser
modifiedOn: 2020-08-04T20:59:35.084Z
modifiedBy: superuser
schema:
  $ref: '#/components/schemas/SitesPage'
description: OK
"400":
content:
  application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
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application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of Sites. Only one filter is supported at a time.
tags:
- Sites
post:
  operationId: createSite
requestBody:
  content:
    application/json:
      example:
        tenantId: df50cb47-0348-4bbf-96e6-9d0904008c03
deviceIds: []
nname: Your Site Name
description: A description of the site.
schema:
  $ref: '#/components/schemas/SiteCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: fa1872f0-d824-11ea-ab1f-85a66520c057
tenantId: df50cb47-0348-4bbf-96e6-9d0904008c03
name: Your Site Name
description: A description of the site.
attributes: {}
devices: []
status:
type: health
name: healthStatus
value: unknown
severity: "3"
lastUpdated: 2020-08-06T20:39:51.457707Z
lastUpdatedMessage: unknown
createdOn: 2020-08-06T20:39:51.460741Z
createdBy: 4d291eb4-bf0c-4ab2-b28e-5d0623a22964
modifiedOn: 2020-08-06T20:39:51.460741Z
modifiedBy: 4d291eb4-bf0c-4ab2-b28e-5d0623a22964
schema:
  $ref: '#/components/schemas/Site'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new site.
tags:
  - Sites
/manage/api/v8/sites/{id}:
delete:
  operationId: deleteSite
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
type: string
style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error

summary: Deletes a site.
tags:
- Sites
get:
  operationId: getSite
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  - explode: true
in: query
name: showImage
required: false
schema:
default: false
type: boolean
style: form
responses:
"200":
  content:
    application/json:
      example:
        id: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
name: Site Two
description: A great description of site two.
image: ""
attributes:
  tenantName: d5e9dc30-0232-499b-a8f3-3962c3138159
  contactEmail: ""
  contactName: ""
  latitude: "43.6411344"
siteDescription: A great description of site two.
location: 88 Queens Quay W, Toronto, ON M5J, Canada
longitude: -79.377034699997
devices:
- deviceId: CPE-828dc6b2-2345-4b8f-b5af-5db230a95cd3
  serviceId: d5e9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
  serviceType: manageddevice
location:
  latitude: 43.6411344
  longitude: -79.3770346999997
status:
type: health
name: healthStatus
value: unknown
severity: "3"
lastUpdated: 2020-08-04T20:59:35.071Z
lastUpdatedMessage: unknown
createdOn: 2020-08-04T20:59:35.084Z
createdBy: superuser
modifiedOn: 2020-08-04T20:59:35.084Z
modifiedBy: superuser
schema:
  $ref: '#/components/schemas/Site'
description: OK
"400":
  content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a site.
tags:
- Sites
put:
opoperationId: updateSite
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
- explode: true
  in: query
  name: sendNotification
  required: false
  schema:
    default: false
type: boolean
style: form
requestBody:
  content:
    application/json:
      example:
        name: Site Three
        description: A new description with better words.
        attributes: {}
      schema:
        $ref: '#/components/schemas/SiteUpdate'
      required: true
responses:
  "200":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Site'
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates a site.
tags:
- Sites
/manage/api/v8/sites/{id}/devices/{deviceId}:
delete:
operationId: removeDeviceFromSite
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
- explode: false
  in: path
  name: deviceId
  required: true
  schema:
    type: string
    style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthorized
  "404":
    content:
      application/json:
        schema:
$ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Removes a device from a site.
tags:
- Sites
put:
  operationId: addDeviceToSite
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  - explode: false
    in: path
    name: deviceId
    required: true
    schema:
      type: string
      style: simple
  - explode: true
    in: query
    name: sendNotification
    required: false
    schema:
      default: false
      type: boolean
      style: form
  responses:
"200":
  content:
    application/json:
      example:
        id: ec53d570-d828-11ea-ab1f-85a66520c057
        tenantId: 66290b34-91cb-42fe-9821-c2f8007b8af3
        name: Site Three
        description: This is the best site description.
        devices:
          - deviceId: 8352c1f7-6683-4514-8ab3-1dfe8d74d800
- Sites

`/monitor/api/v8/health/devices/list`

get:

operationId: getDevicesHealthList

parameters:

- explode: true
  in: query
  name: ids
  required: true
  schema:
    items:
      type: string
      minItems: 1
    type: array
    style: form

responses:

"200":
  content:
    application/json:
      schema:
        items:
          $ref: '#/components/schemas/ResourceHealth'
        type: array
      description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
tags:
- Health

/monitor/api/v8/health/services/list:
  get:
    operationId: getServicesHealthList
    parameters:
    - explode: true
      in: query
      name: ids
      required: true
      schema:
        items:
          type: string
        minItems: 1
        type: array
        style: form
    responses:
      "200":
        content:
          application/json:
            schema:
              items:
                $ref: '#/components/schemas/ResourceHealth'
              type: array
            description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Bad Request
      "401":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthenticated
      "403":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthorized
      "500":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
description: Internal Server Error
tags:
- Health
/idm/v2/token:
  post:
    operationId: getAccessToken
    parameters:
    - explode: false
      in: header
      name: Authorization
      required: true
      schema:
        type: string
        style: simple
    requestBody:
      content:
        application/x-www-form-urlencoded:
          schema:
            $ref: '#/components/schemas/body'
      responses:
        "200":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/AccessToken'
              description: OK
        default:
          description: Failed
          summary: Returns an access token.
          tags:
          - Security
/idm/api/v8/roles/list:
  get:
    operationId: getRolesList
    parameters:
    - explode: true
      in: query
      name: ids
      required: true
      schema:
        items:
          format: uuid
          type: string
        type: array
        style: form
    responses:
      "200":
        content:
example:
- id: c0895f00-d5d5-11ea-b88a-a7053c652ef4
  name: CONSUMER
  description: Tenant Administrators have Tenant Operator-level permissions, and can also perform more advanced tasks like managing service policies and configurations.
  permissions:
  - DEVICE_MANAGEMENT
  - EXPORT_SERVICE
  - MANAGE_CATEGORY
  - MANAGE_DEVICES
  - MANAGE_DEVICE_SECRETS
  - MANAGE_INCIDENT
  - MANAGE_MD_DEVICE_MODELS
  - MANAGE_MD_SITES
  - MANAGE_REMOTE_USERS
  - MANAGE_SCHEDULE_TASK
  - MANAGE_SERVICES
  - MANAGE_SERVICE_CONFIG_APPLICATION
  - MANAGE_sites
  - MANAGE_TARGET
  - MANAGE_WORKFLOW
  - MANAGE_WORKFLOW_INSTANCE
  - ORDER_SERVICE
  - SWITCH_TENANT
  - SWITCH_TENANT_UI
  - VBRANCH_DEVICE_ACCESS
  - VBRANCH_MANAGE_SITE
  - VBRANCH_MANAGE_TEMPLATE
  - VBRANCH_MANAGE_TEMPLATE_DATA
  - VBRANCH_VIEW_SITES
  - VIEW_ALERT_SERVICE
  - VIEW_ALL_TEMPLATES
  - VIEW_BUILD_INFO
  - VIEW_CATEGORY
  - VIEW_CONTACT
  - VIEW_CONTROL_PLANE
  - VIEW_DASHBOARD
  - VIEW_DEVICES
  - VIEW_DEVICE_RUNNING_CONFIG
  - VIEWDEVICE_SECRETS
  - VIEW_DOCUMENTATION
  - VIEW_END_USER
  - VIEW_EVENTLOG
  - VIEW_EXTENSION_PARAMETERS
  - VIEW_INCIDENT
  - VIEW_INTEGRATION
id: c08874a0-d5d5-11ea-b88a-a7053c652ef4
name: OPERATOR
description: Service Provider Operators support multiple customers by maintaining service information and settings, viewing / monitoring the SP-DNA platform, remediating basic customer issues and escalating more serious ones.
permissions:
- ACCESS_ALL_TENANTS
- ACCESS_DEVICE_TERMINAL
- DEVICE_MANAGEMENT
- EXPORT_SERVICE
- MANAGE_ALERT_SERVICE
- MANAGE_BULK_IMPORT
- MANAGE_CONTROL_PLANE
- MANAGE_DEVICES
- MANAGE_DEVICE_SECRETS
- MANAGE_INCIDENT
- MANAGE_INTEGRATION
- MANAGE_MAINTENANCE_INFO
- MANAGE_MD_DEVICE_MODELS
- MANAGE_MD_SITES
- MANAGE_METADATA
- MANAGE_METRICS
- MANAGE_METRIC_TEMPLATES
- MANAGE_NOTIFICATION
- MANAGE_NSO
- MANAGE_PROVIDER
- MANAGE_SCHEDULE_TASK
- MANAGE_SECRET_POLICIES
- MANAGE_SERVICES
- MANAGE_SERVICETYPES
- MANAGE_SERVICE_CONFIG_APPLICATION
- MANAGE_SERVICE_CONFIG_ASSET
- MANAGE_SERVICE_CONFIG_ASSIGNMENT
- MANAGE_SITES
- MANAGE_SLM
- MANAGE_SYSTEM_SECRET
- MANAGE_TARGET
- MANAGE_TEMPLATES
- MANAGE_TENANT
- MANAGE_TERMS_CONDITIONS
- MANAGE_WORKFLOW_EVENT
- MANAGE_WORKFLOW_INSTANCE
- MANAGE_WORKFLOW_RUNTIME_USER
- MANAGE_WORKFLOW_SCHEDULE
- MANAGE_WORKFLOW_TABLE
- MANAGE_WORKFLOW_TABLE_TYPE
- MANAGE_WORKFLOW_VARIABLE
- ORDER_SERVICE
- REGISTER_DEVICES
- REGISTERDEVICE_ACTION
- SUSPEND_TENANT
- SWITCH_TENANT
- SWITCH_TENANT_UI
- UPGRADE_DEVICES
- VBRANCH_DEVICE_ACCESS
- VBRANCH_MANAGE_SETTINGS
- VBRANCH_MANAGE_SITE
- VBRANCH_MANAGE_TEMPLATE
- VBRANCH_MANAGE_TEMPLATE_DATA
- VBRANCH_VIEW_SITES
- VIEW_ALERT_SERVICE
- VIEW_ALL_TEMPLATES
- VIEW_BUILD_INFO
- VIEW_BULK_IMPORT
- VIEW_COMPONENT_METRICS
- VIEW_COMPONENT_STATUS
- VIEW_CONTACT
- VIEW_CONTROL_PLANE
- VIEW_DASHBOARD
- VIEW_DEVICES
- VIEW_DEVICE_RUNNING_CONFIG
- VIEW_DEVICE_SECRETS
- VIEW_DOCUMENTATION
- VIEW_END_USER
- VIEW_EVENTLOG
- VIEW_EXTENSION_PARAMETERS
- VIEW_INCIDENT
- VIEW_INTEGRATION
- VIEW_LOCALE
- VIEW_LOCALE_STRING
- VIEW_MAINTENANCE_INFO
- VIEW_MD_DEVICE_MODELS
- VIEW_MD_METRICS
- VIEW_MD_PARAMETERS
- VIEW_MD_SITES
- VIEW_METADATA
- VIEW_METRICS
- VIEW_METRIC_TEMPLATES
- VIEW_NOTIFICATION
- VIEW_NSO
- VIEW_OPERATOR_LOGIN_AS_CUSTOMER
- VIEW_OPERATOR_SERVICES
- VIEW_OPERATOR_SITES
- VIEW_PRICE_PLAN
- VIEW_PROVIDER
- VIEW_REMOTE_USERS
- VIEW_ROLE
- VIEW_RUNNING_CONFIG
- VIEW_SCHEDULE_TASK
- VIEW_SECRET_POLICIES
- VIEW_SECURITY_SETTING
- VIEW_SENSITIVE_SERVICE_CONFIG_ASSET_DETAIL
- VIEW_SERVICES
- VIEW_SERVICE_CONFIGURATION_UI
- VIEW_SERVICE_CONFIG_APPLICATION
- VIEW_SERVICE_CONFIG_ASSET
- VIEW_SERVICE_CONFIG_ASSIGNMENT
- VIEW_SERVICE_CONFIG_AUDIT
- VIEW_SERVICE_EXTENSION
- VIEW_SITES
- VIEW_SLM
- VIEW_STATUS
- VIEW_SYSTEM_SECRETS
- VIEW_TARGET
- VIEW_TENANT
- VIEW_TERMS_CONDITIONS
- VIEW_WORKFLOW_EVENT
- VIEW_WORKFLOW_INSTANCE
- VIEW_WORKFLOW_RUNTIME_USER
- VIEW_WORKFLOW_SCHEDULE
- VIEW_WORKFLOW_TABLE
- VIEW_WORKFLOW_TABLE_TYPE
- VIEW_WORKFLOW_VARIABLE

schema:
  items:
    $ref: '#/components/schemas/Role'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a list of roles.
tags:
- Roles
/idm/api/v8/roles/name/{name}:
  get:
    operationId: getRoleByName
    parameters:
    - example: CONSUMER
    explode: false
Tenant Administrators have Tenant Operator-level permissions, and can also perform more advanced tasks like managing service policies and configurations.

Permissions:
- DEVICE_MANAGEMENT
- EXPORT_SERVICE
- MANAGE_CATEGORY
- MANAGE_DEVICES
- MANAGEDEVICESECRETS
- MANAGEINCIDENT
- MANAGEMDDEVICEMODELS
- MANAGEMDSITES
- MANAGEMOREMOTEUSERS
- MANAGESCHEDULETASK
- MANAGESERVICES
- MANAGESERVICECONFIGAPPLICATION
- MANAGESITES
- MANAGETARGET
- MANAGEWORKFLOW
- MANAGEWORKFLOWINSTANCE
- ORDERSERVICE
- SWITCHTENANT
- SWITCHTENANTUI
- VBRANCHDEVICEACCESS
- VBRANCHMANAGESITE
- VBRANCHMANAGETEMPLATE
- VBRANCHMANAGETEMPLATEDATA
- VBRANCHVIEWSITES
- VIEW_ALERTSERVICE
- VIEW_ALLTEMPLATES
- VIEW_BUILDINFO
- VIEWCATEGORY
- VIEWCONTACT
- VIEWCONTROLPLANE
- VIEWDASHBOARD
- VIEW_DEVICES
- VIEW_DEVICE_RUNNING_CONFIG
- VIEW_DEVICE_SECRETS
- VIEW_DOCUMENTATION
- VIEW_END_USER
- VIEW_EVENTLOG
- VIEW_EXTENSION_PARAMETERS
- VIEW_INCIDENT
- VIEW_INTEGRATION
- VIEW_LOCALE
- VIEW_LOCALE_STRING
- VIEW_MAINTENANCE_INFO
- VIEW_MD_DEVICE_MODELS
- VIEW_MD_METRICS
- VIEW_MD_PARAMETERS
- VIEW_MD_SITES
- VIEW_METRICS
- VIEW_PRICE_PLAN
- VIEW_PROVIDER
- VIEW_REMOTE_USERS
- VIEW_RESOURCES_UI
- VIEW_RUNNING_CONFIG
- VIEW_SCHEDULE_TASK
- VIEW_SECURITY_SETTING
- VIEW_SENSITIVE_SERVICE_CONFIG_ASSET_DETAIL
- VIEW_SERVICES
- VIEW_SERVICE_CONFIG_APPLICATION
- VIEW_SERVICE_CONFIG_ASSET
- VIEW_SERVICE_CONFIG_ASSIGNMENT
- VIEW_SERVICE_CONFIG_AUDIT
- VIEW_SERVICE_EXTENSION
- VIEW_SITES
- VIEW_STATUS
- VIEW_SUBSCRIPTIONS_UI
- VIEW_TARGET
- VIEW_TENANT
- VIEW_TERMS_CONDITIONS
- VIEW_WORKFLOW
- VIEW_WORKFLOW_INSTANCE

schema:
  $ref: '#/components/schemas/Role'

description: OK

"400":

content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'

description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a role by name.
tags:
- Roles
/idm/api/v8/tenants:
  get:
    operationId: getTenantsPage
    parameters:
    - explode: true
      in: query
      name: parentId
      required: false
      schema:
        format: uuid
        type: string
        style: form
    - explode: true
      in: query
      name: showImage
      required: false
      schema:
        default: false
        type: boolean
        style: form
    - explode: true
in: query
name: page
required: true
schema:
  example: 0
  format: int32
  minimum: 0
  type: integer
  style: form
- explode: true
in: query
name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
- explode: true
in: query
name: sortBy
required: false
schema:
  example: name
  type: string
  style: form
- explode: true
in: query
name: sortOrder
required: false
schema:
  enum:
  - asc
  - desc
  type: string
  style: form
responses:
"200":
  content:
    application/json:
      example:
        page: 0
        pageSize: 3
        hasNext: true
        hasPrevious: false
        contents:
schema:
  $ref: '#/components/schemas/Error'
  description: Internal Server Error
summary: Returns a page of tenants.
tags:
- Tenants
post:
  operationId: createTenant
  requestBody:
    content:
      application/json:
        example:
          name: Acme Company
          description: An anvil for every roadrunner.
          url: https://cisco.com
        schema:
          $ref: '#/components/schemas/TenantCreate'
        required: true
  responses:
    "201":
      content:
        application/json:
          example:
            id: b980988a-e418-494e-98d6-6cf2b80e9e73
            createdOn: 2020-08-06T21:43:17.941Z
            modifiedOn: 2020-08-06T21:43:17.941Z
            name: Acme Company
            description: An anvil for every roadrunner.
            url: https://cisco.com
        schema:
          $ref: '#/components/schemas/Tenant'
        description: Created
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthorized
$ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new tenant.
tags:
- Tenants
/idm/api/v8/tenants/list:
  get:
    operationId: getTenantsList
    parameters:
    - explode: true
      in: query
      name: ids
      required: true
      schema:
        items:
          format: uuid
          type: string
          type: array
        style: form
    - explode: true
      in: query
      name: showImage
      required: false
      schema:
        default: false
        type: boolean
        style: form
    responses:
      "200":
        content:
          application/json:
            example:
              - id: ea7e39f2-863a-41b8-a6eb-6d730bc200b0
                createdOn: 2020-08-05T21:29:46.782Z
                modifiedOn: 2020-08-05T21:29:46.782Z
                suspended: false
                name: Acme Company
                description: An anvil for every roadrunner.
                url: https://cisco.com
                numberOfChildren: 0
              - id: b32fc309-1e42-4769-81be-dfda6a249b6f
                createdOn: 2020-08-06T20:59:52.19Z

operationId: deleteTenant
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Not Found
  "409":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Conflict
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a tenant by id.
tag:
- Tenants
get:
operationId: getTenant
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
type: string
style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
          createdOn: 2020-08-04T21:28:03.665Z
          modifiedOn: 2020-08-04T21:28:03.665Z
          suspended: false
          name: Alta Motors
description: The future of fast.
url: https://cisco.com
numberOfChildren: 0
schema:
  $ref: '#/components/schemas/Tenant'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a tenant by id.
tags:
- Tenants
put:
  operationId: updateTenant
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  requestBody:
    content:
      application/json:
        example:
          name: Acme Company
          description: We sell rocket powered rollerskates.
          url: https://cisco.com
        schema:
          $ref: '#/components/schemas/TenantUpdate'
        required: true
  responses:
  "200":
    content:
      application/json:
        example:
          id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
          createdOn: 2020-08-04T21:28:03.665Z
          modifiedOn: 2020-08-04T21:28:03.665Z
          suspended: false
          name: Acme Company
          description: We sell rocket powered rollerskates.
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```
- type: string
  style: form
- explode: true
  in: query
  name: deleted
  required: false
  schema:
    type: boolean
    style: form
- explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format: int32
    minimum: 0
    type: integer
    style: form
- explode: true
  in: query
  name: pageSize
  required: true
  schema:
    example: 10
    format: int32
    maximum: 1000
    minimum: 1
    type: integer
    style: form
responses:
"200":
  content:
    application/json:
      example:
        page: 0
        pageSize: 3
        totalItems: 47
        hasNext: false
        hasPrevious: false
        contents:
- id: 2415ed27-5d23-4888-8757-a33acad12eed
  status: "true"
  deleted: "false"
  username: TBaker
  firstName: Tom
  lastName: Baker
  email: noreply@cisco.com
```
$ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of users.
tags:
- Users
post:
  operationId: createUser
  requestBody:
    content:
      application/json:
        example:
          firstName: Tom
          lastName: Baker
          email: noreply@cisco.com
          roleIds:
          - c0895f00-d5d5-11ea-b88a-a7053c652ef4
          tenantIds:
          - 18992931-6ced-4133-9101-da6e4b83a5df
          passwordPolicyName: ppolicy_default
          username: TBaker
          password: Password@1
        schema:
          $ref: '#/components/schemas/UserCreate'
        required: true
  responses:
"201":
  content:
    application/json:
      example:
        id: b6c6e42a-d930-4e3b-ac28-2a337ec570ae
        status: "true"
        deleted: "false"
        username: TBaker
        firstName: Tom
        lastName: Baker
        email: noreply@cisco.com
        roleIds:
        - c0895f00-d5d5-11ea-b88a-a7053c652ef4
        tenantIds:
        - 18992931-6ced-4133-9101-da6e4b83a5df
        passwordPolicyName: ppolicy_default
    schema:
$ref: '#/components/schemas/User'
description: Created
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new user.
tags:
- Users
/idm/api/v8/users/{id}:
delete:
operationId: deleteUser
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
type: string
style: simple
responses:
"204":
description: No Content
"400":
content:
application/json:
schema:
summary: Deletes a user by id.

tags:
- Users
get:
operationId: getUser
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
responses:
"200":
  content:
    application/json:
      example:
        id: 9349f90e-b5f8-4c1a-b302-3fda5182123e
        status: "true"
        deleted: "false"
username: PDavidson
firstName: Peter
lastName: Davidson
email: noreply@cisco.com

roleIds:
- c08b33c0-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
- 4cc13c9c-61be-4dd1-b50b-bbcd5f40a3c4
passwordPolicyName: ppolicy_default

schema:
  $ref: '#/components/schemas/User'
description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns an existing user.
tags:
- Users

put:
  operationId: updateUser
  parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
  requestBody:
    content:
      application/json:
        example:
          firstName: Christopher
          lastName: Eccleston
          email: noreply@cisco.com
          roleIds:
            - c0895f00-d5d5-11ea-b88a-a7053c652ef4
          tenantIds:
            - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
          passwordPolicyName: ppolicy_default
      schema:
        $ref: '#/components/schemas/UserUpdate'
    required: true
  responses:
    "200":
      content:
        application/json:
          example:
            id: 271eaf78-b805-492a-8afb-a53183912728
            status: "true"
            deleted: "false"
            username: CEccleston
            firstName: Christopher
            lastName: Eccleston
            email: noreply@cisco.com
            roleIds:
            - c0895f00-d5d5-11ea-b88a-a7053c652ef4
            tenantIds:
            - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
            passwordPolicyName: ppolicy_default
          schema:
            $ref: '#/components/schemas/User'
      description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates an existing user.
tags:
- Users
/idm/api/v8/users/current:
get:
operationId: getCurrentUser
responses:
"200":
content:
application/json:
example:
id: 271ef78-b805-492a-8af8-a53183912728
status: "true"
deleted: "false"
username: JWhittaker
firstName: Jodie
lastName: Whittaker
email: noreply@cisco.com
roleIds:
- c0895f00-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
- 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
passwordPolicyName: ppolicy_default
schema:
  $ref: '#/components/schemas/User'
description: OK
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns the current user.
tags:
  - Users
/idm/api/v8/users/updatepassword:
  put:
    operationId: updateUserPassword
    requestBody:
      content:
        application/json:
          example:
            username: JWhittaker
            oldPassword: Password@1
            newPassword: Password@2
          schema:
            $ref: '#/components/schemas/UpdatePassword'
          required: true
    responses:
      "204":
        description: No Content
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
        description: Bad Request
      "401":
        content:
application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Update a user password.
tags:
- Users
/workflow/api/v8/workflows:
  post:
    operationId: importWorkflow
    parameters:
    - explode: true
      in: query
      name: tenantId
      required: false
      schema:
        items:
          format: uuid
          type: string
type: array
style: form
- explode: true
  in: query
  name: global
  required: false
  schema:
    type: boolean
style: form
requestBody:
  content:
    application/json:
      example:
        workflow:
          unique_name: definition_workflow_1fwhkwsayquzQyyfgz6tdRoyK2
          name: Health Check Atomic
title: Health Check Atomic
type: generic.workflow
base_type: workflow
variables:
  - schema_id: 1flwhm42MFVKT16QCVpnzTV3NDL
    properties:
      value: ""
      scope: input
      name: service_name
      type: datatype.string
    unique_name: variable_workflow_1flwhkauAJQe4uzBvUDvCBdY2HM
    object_type: variable_workflow
    properties:
      atomic:
        is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  target_type: web-service.endpoint
  target_id: definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2
  execute_on_workflow_target: true
object_type: definition_workflow
actions:
  - unique_name: definition_activity_1flwhq819QYFkMjAfPWDcg4zlIl
    name: HTTP Request
title: HTTP Request
type: web-service.http_request
base_type: activity
properties:
  accept: application/json
  action_timeout: 180
  allow_auto_redirect: true
  content_type: application/json
  continue_on_error_status_code: false
  continue_on_failure: false
  custom_headers:
    - name: Content-type
      value: application/vnd.spring-boot.actuator.v1+json
display_name: HTTP Request
method: GET
relative_url: /$workflow.definition_workflow_1flwhkwsayquzQyyfgz6tdRoyK2.input.variable_workflow_1flwhkauAJQe4uzBv
UDvCBdY2HM$/admin/health
runtime_user:
  override_target_runtime_user: false
target_default: true
target:
  override_workflow_target: false
use_workflow_target: true
object_type: definition_activity
targets:
definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2:
  unique_name: definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2
  name: Router Service
title: Router Service
type: web-service.endpoint
base_type: target
object_type: definition_target
properties:
  description: Router Service
disable_certificate_validation: true
display_name: Router Service
host: dev-plt-aio1.lab.ciscomsx.com
no_runtime_user: true
port: -1
protocol: https
schema:
  additionalProperties:
    type: object
    type: object
    required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: 01HTTXYUA72E13V0UsjQ13ik4QfytNB2cvM
tenantIds:
  - c1c7ac2f-9435-41b8-a76e-b23a14c761df
uniqueName: definition_workflow_1flwhksayqzQyfgyg6tdRoyK2
createdBy: 46dccc7f6-12f1-4e72-a44a-e7964dd8a43e
createdOn: 2020-08-07 13:15:10+0000
modifiedBy: 46dccc7f6-12f1-4e72-a44a-e7964dd8a43e
modifiedOn: 2020-08-07 13:15:10+0000
schema:
  $ref: '#/components/schemas/WorkflowMapping'
description: Created
"400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
"401":
    content:
      application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Imports a workflow.
tag:
  - Workflows
/workflow/api/v8/workflows/list:
  get:
    operationId: getWorkflowsList
parameters:
  - explode: true
    in: query
    name: tenantId
    required: false
    schema:
      format: uuid
      type: string
      style: form
  - explode: true
    in: query
    name: atomic
    required: false
    schema:
      default: false
      type: boolean
      style: form
responses:
  "200":
    content:
      application/json:
        example:
          - id: 01HTTZQ6KG8BQ2tvgrxwB2O1NEQ5pTvXjD
            name: Health Check Atomic
            type: generic.workflow
            properties:
              atomic:
is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  execute_on_workflow_target: true
target_id: 01HTTZQ111KK03HnhzTPwT6MuUfHywECEw
target_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub
valid: true
owner: aoadmin
categories:
- 01HQR5WWLT5Z6VMtGUNGjscsbZOE3psRVR
metadata:
git_info:
  target_id: ""
  commit_hash: ""
status:
  state: import_completed
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg
unique_name: definition_workflow_1flwzKmCj9692j0FZRigZxne0fF
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:17:28Z
created_by: aoadmin
updated_on: 2020-08-07T13:17:30Z
updated_by: system
- id: 01HTTZRH15EAQ5PJhiXalFmAUySyzw5hUR
  name: Health Check Atomic
type: generic.workflow
properties:
  atomic:
    is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  execute_on_workflow_target: true
target_id: 01HTTZRR8X3C35e2F9PUF1OBsVMcMDpT86x
target_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub
valid: true
owner: aoadmin
categories:
- 01HQR5WWLT5Z6VMtGUNGjscsbZOE3psRVR
metadata:
git_info:
  target_id: ""
  commit_hash: ""
status:
state: import_completed
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hii559TOg
unique_name: definition_workflow_1flwzgjQExHVTiT1n9p9to2LsEP
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:17:30Z
created_by: aoadmin
updated_on: 2020-08-07T13:17:32Z
updated_by: system
schema:
  items:
    $ref: '#/components/schemas/Workflow'
  type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflows.
tags:
  - Workflows
/workflow/api/v8/workflows/{id}:
delete:
  operationId: deleteWorkflow
  parameters:
    - explode: false
      in: path
      name: id
required: true
schema:
  type: string
  style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
summary: Delete a workflow.
tags:
- Workflows
get:
  operationId: getWorkflow
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
id: 01HTU0GSER5182zXr2yeLADwvAW8tUbTF6F
name: Health Check Atomic
title: Health Check Atomic
type: generic.workflow
properties:
  atomic:
    is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  execute_on_workflow_target: true
target_id: 01HTU0H426RSC17R6ryJsiaekVTZOBgQPT
target_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub
valid: true
owner: aoadmin
categories:
- 01HQR5WWLT5ZZ6VMtGUNGjcsbZOE3psRVR
metadata:
git_info:
  target_id: 
  commit_hash: 
status:
  state: import_completed
permissions:
- manage
- run
variables:
- id: 01HTU0GT1SE035ThRGKqPnrNX7hteloFasr
  properties:
    value: 
    scope: input
    name: service_name
    type: datatype.string
    is_required: false
unique_name: variable_workflow_1flx6VoqQUDEbTsCa8sPZpYiumZ
created_by: aoadmin
created_on: 2020-08-07T13:18:25Z
updated_by: aoadmin
updated_on: 2020-08-07T13:18:27Z
schema_id: 01HQR50TZIK3M3d09kDOqLnYSywRwovUhAW
object_type: variable_workflow
actions:
- id: 01HTU0HMMQ1LL1U6HB1qddmdfZFP2UEdHoC
  name: HTTP Request
  title: HTTP Request
  type: web-service.http_request
  status:
    state: created
  base_type: activity
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiL559TOg
unique_name: definition_workflow_1flx6Vx6P91ZUhHJmH2IDqAbr2m
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:18:26Z
created_by: aoadmin
updated_on: 2020-08-07T13:18:27Z
updated_by: system
schema:
  $ref: '#/components/schemas/Workflow'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a workflow.  
tags:  
- Workflows  
put:  
operationId: updateWorkflow  
parameters:  
- explode: false  
in: path  
name: id  
required: true  
schema:  
  type: string  
  style: simple  
- explode: true  
in: query  
name: tenantId  
required: false  
schema:  
  items:  
    format: uuid  
    type: string  
    type: array  
    style: form  
- explode: true  
in: query  
name: global  
required: false  
schema:  
  type: boolean  
  style: form  
requestBody:  
  content:  
    application/json:  
      schema:  
        additionalProperties:  
          type: object  
          type: object  
        required: true  
responses:  
  "200":  
    content:  
      application/json:  
        schema:  
          $ref: '#/components/schemas/WorkflowMapping'  
        description: OK  
  "400":
summary: Updates a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/export:
get:
  operationId: exportWorkflow
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
        example:
          workflow:
            unique_name: definition_workflow_1flxysOQP8K57CCL1jR7JIBgdoi
            name: Health Check Atomic
            title: Health Check Atomic
            type: generic.workflow
            base_type: workflow
variables:
- schema_id: datatype.string
  properties:
    value: ""
  scope: input
  name: service_name
  type: datatype.string
  is_required: false
unique_name: variable_workflow_1flxyrRQ3Pf1Z55c7CAMqmfddLLP
object_type: variable_workflow
properties:
  atomic:
    is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  target_type: web-service.endpoint
  target_id: definition_target_1flxytXPvWWHm2IIP8toycenGNFh
  execute_on_workflow_target: true
object_type: definition_workflow
actions:
- unique_name: definition_activity_1flxytuQqBFqHtXwfgC5qrFvIF
  name: HTTP Request
  title: HTTP Request
  type: web-service.http_request
  base_type: activity
  properties:
    accept: application/json
    action_timeout: 180
    allow_auto_redirect: true
    content_type: application/json
    continue_on_error_status_code: false
    continue_on_failure: false
    custom_headers:
      - name: Content-type
        value: application/vnd.spring-boot.actuator.v1+json
display_name: HTTP Request
  method: GET
relative_url:
  /$workflow.definition_workflow_1flxysOQP8K57CCL1jr7JIIBgdoi.input.variable_workflow_1flxyrRQ3Pf1Z55c7CAMqmfddLLPS/admin/health
runtime_user:
  override_target_runtime_user: false
target_default: true
skip_execution: false
target:
  override_workflow_target: false
use_workflow_target: true
object_type: definition_activity
categories:
- category_1BMfMXSsnJMyt5Ihqi7rWJr5N8cf
targets:
definition_target_1flxytXPvWWHm2lP8toyccnGNFh:
  unique_name: definition_target_1flxytXPvWWHm2lP8toyccnGNFh
  name: Router Service
title: Router Service
type: web-service.endpoint
base_type: target
object_type: definition_target
properties:
  description: Router Service
disable_certificate_validation: true
display_name: Router Service
host: dev-plt-aio1.lab.ciscomsx.com
no_runtime_user: true
port: -1
protocol: https
schema:
  type: string
description: OK
"400":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Not Found
"500":

"200":
  content:
    application/json:
      example:
        - id: 01HTU6T8HR4BR2l7fjYz3ByMqmFGN4Hse9P
          type: generic.workflow
          status:
            state: created
            version: 1.0.0
          definition_id: 01HTU6QAYFTCA3epU8esiR4c2anJiZEjaVu
          schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hiil559TOg
          base_type: workflow
          created_by: aoadmin
          created_on: 2020-08-07T13:26:43Z
          schema:
            items:
              $ref: '#/components/schemas/StartWorkflowResponse'
              type: array
            description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Starts a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/startconfig:
get:
operationId: getWorkflowStartConfig
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
        example:
          input_variables:
            - id: 01HTU9YNVH2UU7MiSA3LV7IwrhUSmShOCmm
              properties:
                value: ""
              scope: input
              name: service_name
              type: datatype.string
              is_required: false
              unique_name: variable_workflow_1flyc1Zeu5YyWbMXGcxEULkCPN0
            created_by: aoadmin
            created_on: 2020-08-07T13:30:50Z
            updated_by: aoadmin
            updated_on: 2020-08-07T13:30:51Z
            schema_id: 01HQR50TZJK3M3d09kDOqLnYSywRwovUhrAW
            schema:
              $ref: '#/components/schemas/WorkflowStartConfig'
              description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow start config.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/validate:
post:
opera\tionId: validateWorkflow
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
responses:
"200":
content:
  application/json:
    example:
      total_actions: 2
      total_valid: 2
      workflow_valid: true
    schema:
      $ref: '#/components/schemas/ValidateWorkflowResponse'
description: OK
"400":
content:
  application/json:
  schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Validates a workflow.
tags:
  - Workflows
/workflow/api/v8/categories:
post:
  operationId: createWorkflowCategory
parameters:
  - explode: true
    in: query
    name: tenantId
    required: false
    schema:
      format: uuid
type: string
style: form
requestBody:
  content:
    application/json:
      example:
        name: Category One
title: Category One
description: A description of category one.
schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6

schema:
$ref: '#/components/schemas/WorkflowCategoryCreate'

required: true

responses:
"201":
content:
application/json:
example:
id: 01HTUHZLGd1G44uIvVhuVUuellFkdpoN2aP3
name: Category One
title: Category One
type: basic.category
description: A description of category one.
owner: aoadmin

schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
base_type: category
category_type: custom
created_on: 2020-08-07T13:41:19Z
created_by: aoadmin
updated_on: 2020-08-07T13:41:19Z
updated_by: aoadmin
unique_name: category_01HTUHZLWOMFM4mm9sgaP3yGST4UDPXWMat

schema:
$ref: '#/components/schemas/WorkflowCategory'
description: Created

"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request

"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated

"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized

"500":
content:
application/json:
schema:
description: Internal Server Error
summary: Creates a new workflow category.
tags:
- Workflow Categories
/workflow/api/v8/categories/list:
  get:
    operationId: getWorkflowCategoriesList
    parameters:
      - explode: true
        in: query
        name: tenantId
        required: false
        schema:
          format: uuid
          type: string
          style: form
    responses:
      "200":
        content:
          application/json:
            example:
              - id: 01HTUOXAQLT3B4ddnGJ3JG1Y3eGEu8kh99
                name: Category One
                title: Category One
                type: basic.category
                description: A description of category one.
                owner: aoadmin
                schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
                base_type: category
                category_type: custom
                created_on: 2020-08-07T13:50:22Z
                created_by: aoadmin
                updated_on: 2020-08-07T13:50:22Z
                updated_by: aoadmin
                unique_name: category_01HTUOXB3RHY61AvZ3WyHp2FJlcn64d3aR1
                schema:
                  items:
                    $ref: '#/components/schemas/WorkflowCategory'
                  type: array
                  description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Bad Request
      "401":

summary: Returns a list of workflow categories.

tags:
- Workflow Categories

/workflow/api/v8/categories/{id}:
delete:

operationId: deleteWorkflowCategory

parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple

responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
          description: Unauthorized
  "403":
    content:
- Workflow Categories

get:
operationId: getWorkflowCategory
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HTUQ4UK2ON01Pxm88QXs1Q65X3bb22I0A
          name: Category One
          title: Category One
          type: basic.category
          description: A description of category one.
          owner: aoadmin
          schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
          base_type: category
          category_type: custom
          created_on: 2020-08-07T13:51:57Z
          created_by: aoadmin
          updated_on: 2020-08-07T13:51:57Z
          updated_by: aoadmin
          unique_name: category_01HTUQ4UY5RQL38MHgO1rEb2nI57kYwMOio
schema:
  $ref: '#/components/schemas/WorkflowCategory'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow category.
tags:
- Workflow Categories

put:
operationId: updateWorkflowCategory
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
content:
application/json:
  example:
    name: New Category Name
    title: New Category Title
    description: A much better description than before.
    schema_id: 01HQR4T0U6YBE7USwHqihXogAACos2iac6
    schema:
      $ref: '#/components/schemas/WorkflowCategoryUpdate'
  required: true
  responses:
    "200":
      application/json:
        example:
          id: 01HTUQXABYWQ00Pe1CG88H4AU5vNgVWrOzz
          name: New Category Name
          title: New Category Title
          type: basic.category
          description: A much better description than before.
          owner: aoadmin
          schema_id: 01HQR4T0U6YBE7USwHqihXogAACos2iac6
          base_type: category
          category_type: custom
          created_on: 2020-08-07T13:52:59Z
          created_by: aoadmin
          updated_on: 2020-08-07T13:53:01Z
          updated_by: aoadmin
          unique_name: category_01HTUQXANSV4T7Dj4fqBqjAMsoMkYGVCLFY
          schema:
            $ref: '#/components/schemas/WorkflowCategory'
          description: OK
    "400":
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
    "401":
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
    "403":
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Updates a workflow category.
tags:
- Workflow Categories
/workflow/api/v8/events:
  post:
    operationId: createWorkflowEvent
    requestBody:
      content:
        application/json:
          example:
            title: Event One
            description: This is not the description you are looking for.
            target_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK
            schema_id: 01HQR51UJFSML2CKLOFnmYq7YgGQlIgzmvHx
          properties:
            title: Event One
            target_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK
            topic_name: TEST_TOPIC
          schema:
            $ref: '#/components/schemas/WorkflowEventCreate'
          required: true
        responses:
          "201":
            content:
              application/json:
                example:
                  id: 01HTUTXM9WJYO68qlCTXsVTsMvwBOU3NTm
                  name: Event One
                  title: Event One
                  type: kafka.event
                  properties:
                    target_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK
                    title: Event One
                    topic_name: TEST_TOPIC
                  owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T13:56:55Z
created_by: aoadmin
updated_on: 2020-08-07T13:56:55Z
updated_by: aoadmin
unique_name: event_01HTUTXMUZK5K4e9DkbweSjca3gD5vpiKvq
schema:
  $ref: '#/components/schemas/WorkflowEvent'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new workflow event.
tags:
- Workflow Events
/workflow/api/v8/events/list:
  get:
    operationId: getWorkflowEventsList
    responses:
      "200":
        content:
          application/json:
            example:
              - id: 01HTUTXM9WJY068qlCTXsVTSvMzBOU3NTm
                name: Event One
                title: Event One
- id: 01HTV20GBCN0U42AUaJriRfalzhqatVmAso
  name: Event Two
  title: Event Two
  type: kafka.event
  properties:
    target_id: 01HTV201F5UPB7Zvq80qNEcvlj1x0jYjRlI
    title: Event Two
    topic_name: TEST_TOPIC
    owner: aoadmin
    base_type: event
    schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
    created_on: 2020-08-07T14:07:28Z
    created_by: aoadmin
    updated_on: 2020-08-07T14:07:28Z
    updated_by: aoadmin
    unique_name: event_01HTV20GM3BS6Zkhyc6bdLEec5B8HWe1whS
    schema:
      items:
        $ref: '#/components/schemas/WorkflowEvent'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow events.
tags:
- Workflow Events
/workflow/api/v8/events/{id}:
delete:
  operationId: deleteWorkflowEvent
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a workflow event.
tags:
  - Workflow Events
get:
  operationId: getWorkflowEvent
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: 01HTV4I8YRWDG35I3IL4q3ek3kGOLLiVSHLL
            name: Event One
            title: Event One
            type: kafka.event
          properties:
target_id: 01HTV4HQDNNX3YD6gp7n1T1aVHd3Wgl5
title: Event One
topic_name: TEST_TOPIC
owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T14:10:43Z
created_by: aoadmin
updated_on: 2020-08-07T14:10:43Z
updated_by: aoadmin
unique_name: event_01HTV4I9L6CBI5ujNxAybYv2G2nz8W1Au7c

schema:
  $ref: '#/components/schemas/WorkflowEvent'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a workflow event.
tags:
- Workflow Events
put:
operationId: updateWorkflowEvent
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        title: New Title
        description: All singing, all dancing event description.
        target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
        schema_id: 01HQR51UJFSML2CKLOFmYq7YgQIgzmvHx
        properties:
          title: New Title
          target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
          topic_name: TEST_TOPIC
        schema:
          $ref: '#/components/schemas/WorkflowEventUpdate'
        required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HTV56VQQZUC4mWipHYh796PL3wOrxtRaD
          name: New Title
type: kafka.event
        properties:
          target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
          title: New Title
          topic_name: TEST_TOPIC
          owner: aoadmin
          base_type: event
          schema_id: 01HQR51UJFSML2CKLOFmYq7YgQIgzmvHx
          created_on: 2020-08-07T14:11:37Z
          created_by: aoadmin
          updated_on: 2020-08-07T14:11:38Z
          updated_by: aoadmin
          unique_name: event_01HTV56WB51FN58TvJUqNktaErVKaADwtN7
        schema:
          $ref: '#/components/schemas/WorkflowEvent'
description: OK
"400":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
  application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates a workflow event.
tags:
- Workflow Events
/workflow/api/v8/workflows/{id}/instances/list:
get:
  operationId: getWorkflowInstancesList
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: true
  in: query
  name: dateFrom
  required: false
schema:
  format: date
type: string
style: form
- explode: true
  in: query
name: dateTo
required: false
schema:
  format: date
type: string
style: form
- explode: true
  in: query
name: page
required: true
schema:
  example: 0
format: int32
minimum: 0
type: integer
style: form
- explode: true
  in: query
name: pageSize
required: true
schema:
  example: 10
format: int32
maximum: 100
minimum: 1
type: integer
style: form
responses:
  "200":
    content:
      application/json:
        example:
          - id: 01HTVA5WUVLV30XX6289x6F5Uw6i6fHxQ9f
            name: Health Check Atomic
            version: 1.0.0
            type: generic.workflow
            properties:
              atomic:
                is_atomic: false
                delete_workflow_instance: false
                display_name: Health Check Atomic
                favorite: false
target:
  execute_on_workflow_target: true
  target_id: 01HTVA4PZGZ9P4B32dTETiQ7S2q0LdYZ
  target_type: 01HQR507N9OPR0y96F1u6rdLwOPvMc7Ub
status:
  state: failed
owner: aoadmin
definition_id: 01HTVA4EWNF712PFaDpGaiWmjvC014C3b5
schema_id: 01HQR4UAFGD6B74Rdv2X7Vpk4Hii559TOg
base_type: workflow
started_on: 2020-08-07T14:18:07Z
ended_on: 2020-08-07T14:18:07Z
created_on: 2020-08-07T14:18:06Z
created_by: aoadmin
updated_on: 2020-08-07T14:18:07Z
updated_by: aoadmin
schema:
  items:
    $ref: '#/components/schemas/WorkflowInstance'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow instances.
tags:
- Workflow Instances
/workflow/api/v8/workflows/instances/{id}:
delete:
  operationId: deleteWorkflowInstance
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example: {}
          schema:
            $ref: '#/components/schemas/WorkflowInstanceDeleteResponse'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'}
description: Not Found
"500":
content:
application/json:
schema:
   $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a workflow instance.
tags:
- Workflow Instances
get:
operationId: getWorkflowInstance
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"200":
content:
application/json:
example:
   id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITAkS
   name: Health Check Atomic
   version: 1.0.0
   type: generic.workflow
   properties:
      atomic:
         is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
   execute_on_workflow_target: true
target_id: 01HTVFPQO55C44B5cEs1Pm6RPS0wKq0w
   target_type: 01HQR507N9OPR0y96F1u2fOdpLwOPvM6C7Ub
actions:
- id: 01HTVFR07JOP33cYLy4zqZB8TiA0o6ebkBy
  name: HTTP Request
title: HTTP Request
type: web-service.http_request
status:
state: failed
workflow_id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITAkS
definition_id: 01HTVFQ8HCPZD7mxQWMo9aRK4SN8F2zaZ3j
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a workflow instance.
tags:
  - Workflow Instances
/workflow/api/v8/workflows instances/{id}/cancel:
post:
  operationId: cancelWorkflowInstance
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
responses:
  "200":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/WorkflowInstance'
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Cancels a workflow instance.
tags:
- Workflow Instances
/workflow/api/v8/workflows/instances/{id}/actions/{actionId}:
get:
  operationId: getWorkflowInstanceAction
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: false
  in: path
  name: actionId
  required: true
  schema:
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HTVKBEMJ03T6AXY12enM1fHaqcbe5CTXC
          name: HTTP Request
          title: HTTP Request
type: web-service.http_request
properties:
  accept: application/json
action_timeout: 180
allow_auto_redirect: true
content_type: application/json
continue_on_error_status_code: false
continue_on_failure: false
custom_headers:
  - name: Content-type
    value: application/vnd.spring-boot.actuator.v1+json
disable_certificate_validation: true
display_name: HTTP Request
host: dev-plt-aio1.lab.ciscomsx.com
method: GET
no_runtime_user: true
port: -1
protocol: https
relative_url: //admin/health
runtime_user:
  override_target_runtime_user: false
target_default: true
skip_execution: false
target:
  override_workflow_target: false
  use_workflow_target: true
status:
  state: failed
output:
  error:
    code: "404"
    message: "action execution errored for type web-service.http_request\n    err:code:404 message::<html>
    <head><title>404 Not Found</title></head>
    <body>
    <center><h1>404 Not Found</h1></center>
    <hr><center>nginx</center>
    </body>
    </html>"
response:
  elapsed_time: 0.235917361
  end_time: 2020-08-07T14:31:22.97397746Z
  start_time: 2020-08-07T14:31:22.738060099Z
  succeeded: false
workflow_id: 01HTVKBEKMJJF3YhZeIt6O4GkrP9Fyo7gd
definition_id: 01HTVKAN0L9R23bhwYdXqHUEb4KAFAP4IKP
schema_id: 01HQR5TKR3L0262ioJhatOKRw8sjtMfaTpY
adapter_id: 01HQR4XDDJIP841AL5bYoKqfH9LDFRIV7ndt
base_type: activity
started_by: aoadmin
started_on: 2020-08-07T14:31:22Z
ended_on: 2020-08-07T14:31:22Z
schema:
  $ref: '#/components/schemas/WorkflowAction'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Returns a workflow instance action.
tags:
  - Workflow Instances

/workflow/api/v8/schemas/list:
get:
  operationId: getWorkflowSchemasList
parameters:
  - explode: true
    in: query
    name: baseType
    required: true
    schema:
      default: category
      type: string
      style: form
  - explode: true
    in: query
    name: schemaType
required: false
schema:
  default: view
  type: string
  style: form
- explode: true
in: query
name: variableType
required: false
schema:
  default: false
  type: boolean
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          - id: 01HQR51GF9YP4qc0yoinLF7qPwG5RRw5y4
            name: AMQP Event
            title: AMQP Event
            description: AMQP Event
            type: amqp.event
            version: 1.0.0
            invisible: false
            owner: system
            inherits: generic.server_event
            base_type: event
            created_on: 2020-08-03T22:25:21Z
            created_by: system
            updated_on: 2020-08-03T22:25:21Z
            updated_by: system
            access_meta:
              adapter:
                id: 01HQR4W5OQF586jo6MoPzD7jmoKZASTDHc
                type: adapter.amqp
                version: 1.0.0
              targets:
                - id: 01HQR4XL0F2XR2a2gY4xVFgwyzoVaX39eHm
                  type: amqp.endpoint
                  version: 1.0.0
                - id: 01HQR51LCBPSZ2s8uQvretFwX9giX7kNPET
                  name: Approval Task Event
                  title: Approval Task Event
                  description: Approval Task Event
                  type: approval_task.event
                  version: 1.0.0
                  invisible: false
owner: system
inherits: generic.event
base_type: event
created_on: 2020-08-03T22:25:21Z
created_by: system
updated_on: 2020-08-03T22:25:21Z
updated_by: system

- id: 01HQR51OODY3N2NzytzL14JaOx2DTZwDAcU
  name: Email Event
  title: Email Event
  description: Email Event
  type: email.event
  version: 1.0.0
  invisible: false
  owner: system
  inherits: generic.server_event
  base_type: event
  created_on: 2020-08-03T22:25:21Z
  created_by: system
  updated_on: 2020-08-03T22:25:21Z
  updated_by: system

  access_meta:
  adapter:
    id: 01HQR4WI5PA612XK9BYQrKjG0iYp8M7IOyT
    type: adapter.email
    version: 1.0.0
  targets:
    - id: 01HQR4Z92JPJH53OTRG6YialYEOWs3yuVgN
      type: email.pop3_endpoint
      version: 1.0.0
    - id: 01HQR4YMFB4VX0FTcEvmXQatvnF4UMwtAGC
      type: email.imap_endpoint
      version: 1.0.0
    - id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
      name: Kafka Event
      title: Kafka Event
      description: Kafka Event
      type: kafka.event
      version: 1.0.0
      invisible: false
      owner: system
      inherits: generic.server_event
      base_type: event
      created_on: 2020-08-03T22:25:22Z
      created_by: system
      updated_on: 2020-08-03T22:25:22Z
      updated_by: system

  access_meta:
adapter:
id: 01HQR4WU9U9AY1ZDytSm3OHx6vaXyFalWr2
type: adapter.kafka
version: 1.0.0
targets:
- id: 01HQR4YUO8XZF4QKY5qtM47OyHL0epbx43
type: kafka.endpoint
version: 1.0.0
- id: 01HQR520APZM96G6JkrnZctwy3tMtV0jPy
  name: Webhook Event
title: Webhook Event
description: Webhook Event
type: webhook.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.event
base_type: event
created_on: 2020-08-03T22:25:22Z
created_by: system
updated_on: 2020-08-03T22:25:22Z
updated_by: system
access_meta: {}
schema:
  items:
    $ref: '#/components/schemas/WorkflowSchema'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
component: textarea
maxLength: 1024
minLength: 0
position: 2
section: General
title: Description
type: string
name:
lhv_invisible: formOnly
maxLength: 64
minLength: 0
section: General
title: Name
type: string
title:
maxLength: 64
minLength: 1
position: 1
section: General
title: Display Name
type: string
required:
- title
view_config:
section_order:
- General

schema:
$ref: '#/components/schemas/WorkflowSchemaByTypeResponse'
description: OK
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow schema.
tags:
- Workflow Schemas
/workflow/api/v8/targets:
post:
  operationId: createWorkflowTarget
requestBody:
  content:
    application/json:
      example:
        name: MSX Kafka
        description: A most excellent description.
        title: Target One
        type: kafka.endpoint
        properties:
          disable_certificate_validation: false
          display_name: MSX Kafka
          host: kafka.vms.svc.cluster.local
          no_runtime_user: true
          port: 9092
          ssl_enable: false
        schema:
          $ref: '#/components/schemas/WorkflowTargetCreate'
      required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
          name: MSX Kafka
          type: kafka.endpoint
          properties:
            disable_certificate_validation: false
            display_name: MSX Kafka
            host: kafka.vms.svc.cluster.local
            no_runtime_user: true
port: 9092
ssl_enable: false
owner: aoadmin
valid: true
schema_id: 01HQR4YUO8XZF4QKY5qtM470yHLoepbmx43
adapter_id: 01HQR4WT4TZ0X3NzZL7wGktR7wKsAzPbLq
base_type: target
created_on: 2020-08-03T22:29:57Z
created_by: aoadmin
updated_on: 2020-08-03T22:29:57Z
updated_by: aoadmin
def_access_meta:
  is_internal: false
  unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2IIo8gZxBN
schema:
  $ref: '#/components/schemas/WorkflowTarget'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new workflow target.
tags:
  - Workflow Targets
/workflow/api/v8/targets/list:
  get:
    operationId: getWorkflowTargetsList
parameters:
- explode: true
  in: query
  name: internal
  required: false
  schema:
    type: boolean
    style: form
- explode: true
  in: query
  name: type
  required: false
  schema:
    type: string
    style: form
responses:
"200":
  content:
    application/json:
      example:
        - id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
          name: MSX Kafka
          type: kafka.endpoint
          properties:
            disable_certificate_validation: false
            display_name: MSX Kafka
            host: kafka.vms.svc.cluster.local
            no_runtime_user: true
            port: 9092
            ssl_enable: false
          owner: aoadmin
          valid: true
          schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbm43
          adapter_id: 01HQR4WT4TZ0X3NzZLI7wGkR7wKsAzPgLq
          base_type: target
          created_on: 2020-08-03T22:29:57Z
          created_by: aoadmin
          updated_on: 2020-08-03T22:29:57Z
          updated_by: aoadmin
          def_access_meta:
            is_internal: false
            unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2IIO8gZXbN
          schema:
            items:
              $ref: '#/components/schemas/WorkflowTarget'
            type: array
          description: OK
"400":
  content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow targets.
tags:
- Workflow Targets
/workflow/api/v8/targets/{id}:
delete:
  operationId: deleteWorkflowTarget
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
summary: Deletes a workflow target.
tags:
- Workflow Targets
get:
operationId: getWorkflowTarget
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTJbNGCO0k2pTKSCw1AT
          name: MSX Kafka
          type: kafka.endpoint
          properties:
            disable_certificate_validation: false
            display_name: MSX Kafka
            host: kafka.vms.svc.cluster.local
            no_runtime_user: true
            port: 9092
ssl_enable: false
owner: aoadmin
valid: true
schema_id: 01HQR4YU08XZF4QKY5qtM47OyHLloePbnx43
adapter_id: 01HQR4WT4TZ0X3NZL7wGkIf7WKSazPbLq
base_type: target
created_on: 2020-08-03T22:29:57Z
created_by: aoadmin
updated_on: 2020-08-03T22:29:57Z
updated_by: aoadmin
def_access_meta:
  is_internal: false
unique_name: definition_target_01AN9H4AfTF5C2l6FseuNnivO2IO8gZXbN
schema:
  $ref: '#/components/schemas/WorkflowTarget'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow target.
tags:
- Workflow Targets

put:

operationId: updateWorkflowTarget
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        name: MSX Kafka
        description: A most excellent description.
        type: kafka.endpoint
        properties:
          disable_certificate_validation: false
          display_name: MSX Kafka
          host: kafka.vms.svc.cluster.local
          no_runtime_user: true
          port: 9092
          ssl_enable: false
        schema:
          $ref: '#/components/schemas/WorkflowTargetUpdate'
        required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
          name: MSX Kafka
          type: kafka.endpoint
          properties:
            disable_certificate_validation: false
            display_name: MSX Kafka
            host: kafka.vms.svc.cluster.local
            no_runtime_user: true
            port: 9092
            ssl_enable: false
          owner: aoadmin
          valid: true
          schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmX43
          adapter_id: 01HQR4WT4TZ0X3NzZL17wGktfR7wKsAzPbLq
          base_type: target
summary: Updates a workflow target.
tags:
- Workflow Targets
manageddevice/api/v1/templates:
get:
  operationId: getManagedDeviceTemplatesList
responses:
  "200":
summary: Returns a list of managed device templates.
tags:
- Managed Device Templates
post:
operationId: createManagedDeviceTemplate
requestBody:
content:
application/json:
schema:
$ref: '#/components/schemas/ManagedDeviceTemplateDTO'
required: true
responses:
"201":
content:
application/json:
schema:
$ref: '#/components/schemas/ManagedDeviceTemplateDTO'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a managed device template.
tags:
- Managed Device Templates

/manageddevice/api/v3/sites:
get:
  operationId: getManagedDeviceSites
parameters:
- explode: true
  in: query
  name: filters
  required: false
  schema:
    items:
      type: string
      type: array
      style: form
responses:
  "200":
    content:
      application/json:
        schema:
          items:
            $ref: '#/components/schemas/ManagedDeviceSiteDTO'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of managed device sites.
tags:
  - Managed Devices Sites
components:
  parameters:
    workflowPage:
      explode: true
      in: query
      name: page
      required: true
      schema:
        example: 0
        format: int32
        minimum: 0
        type: integer
        style: form
    workflowPageSize:
      explode: true
      in: query
      name: pageSize
      required: true
      schema:
example: 10
format: int32
minimum: 1
maximum: 100
type: integer
style: form
page:
explode: true
in: query
name: page
required: true
schema:
example: 0
format: int32
minimum: 0
type: integer
style: form
pageSize:
explode: true
in: query
name: pageSize
required: true
schema:
example: 10
format: int32
maximum: 1000
minimum: 1
type: integer
style: form
sortBy:
explode: true
in: query
name: sortBy
required: false
schema:
example: name
type: string
style: form
sortOrder:
explode: true
in: query
name: sortOrder
required: false
schema:
enum:
- asc
- desc
type: string
style: form
responses:
"204":
  description: No Content
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Not Found
"409":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Conflict
"412":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Precondition Failed
"422":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unprocessable Entity
"500":
  content:
application/json:
  schema:
    $ref: '#/components/schemas/Error'
  description: Internal Server Error

schemas:
  Product:
    allOf:
    - $ref: '#/components/schemas/Product_allOf'
    - $ref: '#/components/schemas/ProductCreate'
  ProductCreate:
    allOf:
    - $ref: '#/components/schemas/ProductUpdate'
  ProductUpdate:
    example:
      image: image
      multipleInstanceAllowed: true
      configuration:
        key: configuration
        hasChildren: true
      serviceExtensions:
        - serviceType: serviceType
          serviceInstanceXPath: serviceInstanceXPath
          possibleXPathLocations:
            - possibleXPathLocations
            - possibleXPathLocations
            - serviceType: serviceType
              serviceInstanceXPath: serviceInstanceXPath
              possibleXPathLocations:
                - possibleXPathLocations
                - possibleXPathLocations
          displayOrder: 6
          orderLimit: 1
          description: description
          active: true
          uiConfig:
            bannerImage: bannerImage
            links:
              - address: address
                label: label
                type: type
                target: target
              - address: address
                label: label
                type: type
                target: target
            label: label
            version: 0
            parentId: parentId
price: price
serviceConfigQueryRootXPaths:
- serviceConfigQueryRootXPaths
- serviceConfigQueryRootXPaths
name: name
options:
- hidden: true
dynamicData: true
childElements:
- null
- null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
  timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
- key: '{}'
- key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
- '{}'
- '{}'
name: name
header: header
allowedOptionValues:
- allowedOptionValues
- allowedOptionValues
supported: true
- hidden: true
dynamicData: true
childElements:
- null
- null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '}'
  - key: '}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{}'
  - '{}'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
isResource: true
properties:
- hidden: true
dynamicData: true
childElements:
- null
- null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
  mandatory: true
  minValue: 5
  inputType: inputType
  value: value
  allowedValues:
    - key: '{}'
    - key: '{}'
  maxValue: 5
  minLimit: minLimit
  label: label
  billable: true
  component: component
  parentName: parentName
  maxLimit: maxLimit
hint: hint
valueList:
  - '{}'
  - '{}'
nname: name
header: header
  allowedOptionValues:
    - allowedOptionValues
    - allowedOptionValues
supported: true
  - hidden: true
dynamicData: true
childElements:
  - null
  - null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
includedQuantity: 7
oneTimePrice: oneTimePrice
unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
additionalQuantity: 9
additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
- key: '{}'
- key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
- '{}'
- '{}'
name: name
header: header
allowedOptionValues:
- allowedOptionValues
- allowedOptionValues
supported: true
properties:
name:
  maxLength: 128
  minLength: 1
type: string
label:
  maxLength: 128
  minLength: 1
type: string
version:
  type: integer
description:
  maxLength: 512
  minLength: 1
type: string
image:
type: string
multipleInstanceAllowed:
  type: boolean
price:
  type: string
displayOrder:
  type: integer
active:
  type: boolean
orderLimit:
  type: integer
options:
  items:
    $ref: '#/components/schemas/ServiceElement'
type: array
properties:
  items:
    $ref: '#/components/schemas/ServiceElement'
type: array
configuration:
  additionalProperties:
    type: string
type: object
isResource:
  type: boolean
hasChildren:
  type: boolean
parentId:
  format: UUID
type: string
serviceExtensions:
  items:
    $ref: '#/components/schemas/NSOConfigDataXPath'
type: array
serviceConfigQueryRootXPaths:
  items:
    type: string
type: array
uiConfig:
  $ref: '#/components/schemas/ServiceUIConfig'
required:
- configuration
- description
- hasChildren
- image
- isResource
- label
- name
- options
- price
- properties
- serviceId
- version
type: object
ServiceElement:
example:
  hidden: true
dynamicData: true
childElements:
  - null
  - null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
additionalQuantity: 9
additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{}'
  - key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{}'
  - '{}'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
- allowedOptionValues
  supported: true
properties:
  name:
    type: string
  label:
    type: string
  header:
    type: string
  description:
    type: string
  hint:
    type: string
  inputType:
    type: string
  type:
    type: string
  component:
    type: string
  maxLimit:
    type: string
  minLimit:
    type: string
  value:
    type: string
  valueList:
    items:
      type: object
    type: array
  allowedOptionValues:
    items:
      type: string
    type: array
  allowedValues:
    items:
      additionalProperties:
        type: object
    type: array
  mandatory:
    type: boolean
  section:
    type: string
  billable:
    type: boolean
  hidden:
    type: boolean
  parentName:
type: string
supported:
  type: boolean
dynamicData:
  type: boolean
minValue:
  type: integer
maxValue:
  type: integer
stepSize:
  type: integer
pricingAttributes:
  $ref: '#/components/schemas/ServiceElementPrice'
childElements:
  items:
    $ref: '#/components/schemas/ServiceElement'
type: array
type: object
ServiceElementPrice:
example:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
  timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
properties:
  oneTimePrice:
    type: string
  periodicPrice:
    type: string
  timePeriod:
    type: string
  unitOfMeasure:
    type: string
  includedQuantity:
    type: integer
  additionalOneTimePrice:
    type: string
  additionalPeriodicPrice:
    type: string
  additionalQuantity:
    type: integer
type: object
NSOConfigDataXPath:
example:
serviceType: serviceType
serviceInstanceXPath: serviceInstanceXPath
possibleXPathLocations:
  - possibleXPathLocations
  - possibleXPathLocations
properties:
  serviceInstanceXPath:
    minLength: 1
    type: string
  serviceType:
    type: string
  possibleXPathLocations:
    items:
      type: string
type: array
required:
  - serviceInstanceXPath
type: object
ServiceUIConfig:
  example:
    bannerImage: bannerImage
    links:
      - address: address
        label: label
        type: type
        target: target
      - address: address
        label: label
        type: type
        target: target
properties:
  bannerImage:
    type: string
  links:
    items:
      $ref: '#/components/schemas/ServiceUILink'
    type: array
type: object
ServiceUILink:
  example:
    address: address
    label: label
    type: type
    target: target
properties:
  type:
  label:
type: string
address:
type: string
target:
type: string
type: object

ProductsPage:
allOf:
- $ref: '#/components/schemas/PageHeader'
- $ref: '#/components/schemas/ProductsPage_allOf'

Offer:
allOf:
- $ref: '#/components/schemas/Offer_allOf'
- $ref: '#/components/schemas/OfferCreate'

OfferCreate:
allOf:
- $ref: '#/components/schemas/OfferUpdate'

OfferUpdate:
example:
  image: image
  supportedOptions:
    - name: name
      value: value
    - name: name
      value: value
  productId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  price: price
  approvals:
    key:
      - approvals
      - approvals
  name: name
  displayOrder: 6
  supportedProperties:
    - supportedProperties
    - supportedProperties
  description: description
  label: label
  type: type
  version: 0

properties:
name:
  maxLength: 128
  minLength: 1
  type: string
  label:
    maxLength: 128
    minLength: 1
allOf:
  - $ref: '#/components/schemas/Device_allOf'
  - $ref: '#/components/schemas/DeviceCreate'
DeviceCreate:
  allOf:
    - $ref: '#/components/schemas/DeviceCreate_allOf'
    - $ref: '#/components/schemas/DeviceUpdate'
DeviceUpdate:
  properties:
    name:
      maxLength: 128
      minLength: 1
      type: string
    model:
      maxLength: 128
      minLength: 1
      type: string
    type:
      maxLength: 128
      minLength: 1
      type: string
    subType:
      maxLength: 128
      type: string
    serviceType:
      maxLength: 128
      type: string
    tags:
      additionalProperties:
        type: string
      type: object
    serialKey:
      maxLength: 128
      minLength: 11
      type: string
    version:
      maxLength: 128
      minLength: 1
      type: string
    managed:
      default: false
      type: boolean
    onboardType:
      maxLength: 128
      type: string
    onboardInformation:
      additionalProperties:
        type: string

type: object
attributes:
  additionalProperties:
    type: string
type: object
billing:
  $ref: '#/components/schemas/DeviceBilling'
required:
- managed
- model
- name
- serialKey
- type
- version
type: object
DeviceBilling:
properties:
  deviceSpeedGrade:
    minLength: 1
type: string
deviceVnfSource:
  minLength: 1
type: string
vnfFlavor:
  minLength: 1
type: string
vnfImage:
  minLength: 1
type: string
vnfName:
  minLength: 1
type: string
vnfValue:
  minLength: 1
type: string
required:
- deviceSpeedGrade
- deviceVnfSource
- vnfFlavor
- vnfImage
- vnfName
- vnfValue
type: object
DevicesPage:
allOf:
- $ref: '#/components/schemas/PageHeader'
- $ref: '#/components/schemas/DevicesPage_allOf'
DeviceTemplateHistory:
example:
  modifiedOn: 2000-01-23T04:56:07.000+00:00
statusError: statusError
templateParams:
  - name: name
    value: value
  - name: name
    value: value
id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceId: deviceId
userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
status: Applied

properties:
id:
  format: uuid
  type: string
deviceId:
  type: string
templateId:
  format: uuid
  type: string
userId:
  format: uuid
  type: string
status:
  enum:
    - Applied
    - Applying
    - Apply Failed
    - Detached
    - Detaching
    - Detach Failed
  type: string
statusError:
  type: string
templateParams:
  items:
    $ref: '#/components/schemas/NameValue'
  type: array
modifiedOn:
  format: date-time
  type: string
type: object

DeviceTemplateAttachRequest:
example:
  templateDetails:
    - templateParams:
- name: name
  value: value
- name: name
  value: value
templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
- templateParams:
  - name: name
    value: value
  - name: name
    value: value
templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
templateDetails:
  items:
    $ref: '#/components/schemas/DeviceTemplateDetails'
type: array
type: object
DeviceTemplateDetails:
example:
  templateParams:
    - name: name
      value: value
    - name: name
      value: value
templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
templateId:
  format: uuid
type: string
templateParams:
  items:
    $ref: '#/components/schemas/NameValue'
type: array
type: object
DeviceTemplateUpdateDetails:
example:
  templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
templateParams:
  - name: name
    value: value
  - name: name
    value: value
properties:
templateHistoryId:
  format: uuid
type: string
templateParams:
  items:
DeviceTemplateUpdateRequest:
example:
    templateDetails:
        - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
        templateParams:
            - name: name
              value: value
            - name: name
              value: value
            - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
              templateParams:
                - name: name
                  value: value
                - name: name
                  value: value

properties:
    templateDetails:
        items:
            $ref: '#/components/schemas/DeviceTemplateUpdateDetails'

DeviceTemplate:
allOf:
- $ref: '#/components/schemas/DeviceTemplateCreate'
- $ref: '#/components/schemas/DeviceTemplate_allOf'

DeviceTemplateCreate:
example:
    serviceType: serviceType
    configContent: configContent
    deviceModels:
        - deviceModels
        - deviceModels
    templateStandard: templateStandard
    name: name
    tenantAccess:
        global: true
    templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    tenantIds:
        - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
        - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    resourceProvider: resourceProvider
    version: version

properties:
    name:
      type: string
version:
  type: string
serviceType:
  type: string
deviceModels:
  items:
    type: string
    type: array
configContent:
  minLength: 1
  type: string
resourceProvider:
  type: string
templateStandard:
  type: string
tenantAccess:
  $ref: '#/components/schemas/DeviceTemplateAccess'
required:
  - configContent
type: object
DeviceTemplateAccess:
example:
  global: true
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  tenantIds:
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  templateId:
    format: uuid
    type: string
  tenantIds:
    description: List of tenants to grant access. Mutually exclusive from global
    flag field.
    items:
      format: uuid
      type: string
      type: array
  global:
    description: Determines if the template is globally accessible. Mutually
    exclusive from tenant list field.
    type: boolean
type: object
DeviceTemplateAccessResponse:
example:
  successListOfTenants:
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
global: true
failureListOfTenants:
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  failureListOfTenants:
    items:
      format: uuid
      type: string
      type: array
  global:
    type: boolean
successListOfTenants:
  items:
    format: uuid
    type: string
    type: array
  type: object
Service:
example:
  modifiedOn: 2000-01-23T04:56:07.000+00:00
  provisionedOn: 2000-01-23T04:56:07.000+00:00
  tenantName: tenantName
  providerId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  definitionAttributes:
    key: '{}'
    attributes:
      key: '{}'
    id: id
  subscriptionId: subscriptionId
  userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  createdOn: 2000-01-23T04:56:07.000+00:00
  status:
    key: status
    properties:
      id:
        readOnly: true
        type: string
      providerId:
        format: uuid
        type: string
      tenantId:
        format: uuid
        type: string
      userId:
        format: uuid
        type: string
subscriptionId:
  type: string
tenantName:
  type: string
createdOn:
  format: date-time
  readOnly: true
type: string
modifiedOn:
  format: date-time
  readOnly: true
type: string
provisionedOn:
  format: date-time
  readOnly: true
type: string
status:
  additionalProperties:
    type: string
type: object
definitionAttributes:
  additionalProperties:
    type: object
type: object
attributes:
  additionalProperties:
    type: object
type: object
type: object
ServicesPage:
  allOf:
  - $ref: '#/components/schemas/PageHeader'
  - $ref: '#/components/schemas/ServicesPage_allOf'
LegacyServiceOrder:
  example:
    serviceType: serviceType
    schedule:
      method: method
      absolute:
        dateTime: 2017-08-01 13:56:44 -0700
      relative:
        scheduleIn: 2h 10m 30s
    transactionUUID: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    payload:
      offer:
        key: offer
cost:
        key: cost
serviceDowngrade:
  key: '{}'
provider:
  key: provider
service:
  key: service
subscriptionName: subscriptionName
subscriptionId: subscriptionId
user:
  key: user
subscriptionDetail:
  offerSelection:
    key: '{}'
siteCount: '{}'
dealerCode: dealerCode
configuration:
  key: configuration
priceDetail:
  key: '{}'
termsAndConditionId: termsAndConditionId
sites:
  - operationalStatus: operationalStatus
    address:
      country: country
      address2: address2
      city: city
      address1: address1
      name: name
      company: company
      postCode: postCode
      state: state
      displayName: display_name
devices:
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
      key: '{}'
    managed: true
    tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: '{}'
  managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
siteName: siteName
delete: true
- operationalStatus: operationalStatus
  address:
  country: country
  address2: address2
city: city
  address1: address1
  name: name
  company: company
  postCode: postCode
  state: state
display_name: display_name
devices:
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: '{}'
  managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
key: '{}'
deviceId: deviceId
delete: true
deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
    managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
serviceInstanceDetail:
  key: '{}'
pricePlanId: pricePlanId
tenant:
  key: tenant
ns罡ResponseTypes:
  deleteOperation: deleteOperation
  updateOperation: updateOperation
  createOperation: createOperation
messageId: messageId
action: action
type: type
properties:
  messageId:
    type: string
type:
  type: string
serviceType:
  type: string
action:
  type: string
schedule:
  $ref: '#/components/schemas/LegacyScheduleConfig'
payload:
  $ref: '#/components/schemas/LegacyServiceOrderDetail'
transactionUUID:
  format: uuid
type: string
type: object
LegacyScheduleConfig:
  example:
    method: method
    absolute:
      dateTime: 2017-08-01 13:56:44 -0700
      relative:
        scheduleIn: 2h 10m 30s
  properties:
    method:
      type: string
    relative:
      $ref: '#/components/schemas/LegacyRelativeConfig'
    absolute:
      $ref: '#/components/schemas/LegacyAbsoluteConfig'
type: object
LegacyRelativeConfig:
  example:
    scheduleIn: 2h 10m 30s
  properties:
    scheduleIn:
      example: 2h 10m 30s
      type: string
type: object
LegacyAbsoluteConfig:
  example:
    dateTime: 2017-08-01 13:56:44 -0700
  properties:
    dateTime:
      example: 2017-08-01 13:56:44 -0700
      type: string
type: object
LegacyServiceOrderDetail:
  example:
    offer:
      key: offer
cost:
    key: cost
  serviceDowngrade:
    key: '{}'
  provider:
    key: provider
  service:
key: service
subscriptionName: subscriptionName
subscriptionId: subscriptionId
user:
  key: user
subscriptionDetail:
  offerSelection:
    key: '{}'
siteCount: '{}'
dealerCode: dealerCode
configuration:
  key: configuration
priceDetail:
  key: '{}'
termsAndConditionId: termsAndConditionId
sites:
- operationalStatus: operationalStatus
  address:
    country: country
    address2: address2
    city: city
    address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
    display_name: display_name
devices:
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
  managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
  name: name
  model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
  delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
- operationalStatus: operationalStatus
  address:
    country: country
    address2: address2
    city: city
    address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
    display_name: display_name
devices:
  - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
        key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
   key: '{}'
   managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
   key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
   key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
serviceInstanceDetail:
   key: '{}'
pricePlanId: pricePlanId
tenant:
   key: tenant
nsResponseTypes:
deleteOperation: deleteOperation
updateOperation: updateOperation
createOperation: createOperation
properties:
service:
   additionalProperties:
      type: string
      type: object
tenant:
   additionalProperties:
      type: string
      type: object
user:
   additionalProperties:
      type: string
      type: object
provider:
   additionalProperties:
      type: string
      type: object
offer:
   additionalProperties:
type: string
type: object
cost:
  additionalProperties:
    type: string
    type: object
subscriptionId:
  type: string
subscriptionName:
  type: string
subscriptionDetail:
  $ref: '#/components/schemas/LegacySubscriptionDetail'
serviceDowngrade:
  additionalProperties:
    type: object
    type: object
nsosResponseTypes:
  $ref: '#/components/schemas/LegacyNsosResponseTypes'
type: object
LegacySubscriptionDetail:
example:
offerSelection:
  key: '{}' 
siteCount: '{}'
dealerCode: dealerCode
configuration:
  key: configuration
priceDetail:
  key: '{}' 
termsAndConditionId: termsAndConditionId
sites:
  - operationalStatus: operationalStatus
    address:
      country: country
      address2: address2
city: city
address1: address1
name: name
company: company
postCode: postCode
state: state
display_name: display_name
devices:
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
      key: '{ }'
    managed: true
key: '{}'  
managed: true  
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
deviceModel: deviceModel  
deviceName: deviceName  
deviceOnboardingType: deviceOnboardingType  
name: name  
model: model  
type: type  
deviceAttributes:  
key: '{}'  
deviceId: deviceId  
delete: true  
- deviceOnboarding:  
  deviceInstanceId: deviceInstanceId  
  deviceOnboardInformation:  
    key: '{}'  
    managed: true  
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
deviceModel: deviceModel  
deviceName: deviceName  
deviceOnboardingType: deviceOnboardingType  
name: name  
model: model  
type: type  
deviceAttributes:  
key: '{}'  
deviceId: deviceId  
delete: true  
displayName: displayName  
siteAttributes:  
key: '{}'  
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
siteName: siteName  
delete: true  
serviceInstanceDetail:  
key: '{}'  
pricePlanId: pricePlanId  
properties:  
siteCount:  
type: object  
sites:  
  items:  
  $ref: '#/components/schemas/LegacySite'  
type: array  
offerSelection:  
  additionalProperties:  
type: object
type: object
serviceInstanceDetail:
  additionalProperties:
    type: object
    type: object
priceDetail:
  additionalProperties:
    type: object
    type: object
dealerCode:
  type: string
pricePlanId:
  type: string
termsAndConditionId:
  type: string
configuration:
  additionalProperties:
    type: string
    type: object
LegacyNsoResponseTypes:
  example:
    deleteOperation: deleteOperation
    updateOperation: updateOperation
    createOperation: createOperation
properties:
  createOperation:
    type: string
  updateOperation:
    type: string
  deleteOperation:
    type: string
type: object
LegacySite:
  example:
    operationalStatus: operationalStatus
    address:
      country: country
      address2: address2
      city: city
      address1: address1
      name: name
      company: company
      postCode: postCode
      state: state
      display_name: display_name
devices:
- deviceOnboarding:
deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
    deviceOnboardInformation:
      key: '{}'
    managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
properties:
siteId:
  format: uuid
type: string
siteName:
  type: string
displayName:
  type: string
address:
  $ref: '#/components/schemas/LegacyAddress'
devices:
items:
  $ref: '#/components/schemas/LegacySiteDevice'
  type: array
siteAttributes:
  additionalProperties:
    type: object
type: object
delete:
  type: boolean
operationalStatus:
  type: string
required:
  - address
  - siteId
  - siteName
type: object
LegacyAddress:
example:
  country: country
  address2: address2
  city: city
  address1: address1
  name: name
  company: company
  postCode: postCode
  state: state
display_name: display_name
properties:
  name:
    type: string
display_name:
    type: string
  company:
    type: string
  address1:
    type: string
  address2:
    type: string
city:
    type: string
  state:
    type: string
country:
    type: string
postCode:
  type: string

type: object
LegacySiteDevice:
deviceInstanceId: 
  type: string 
tenantId: 
  format: uuid 
  type: string 
deviceName: 
  minLength: 1 
  type: string 
managed: 
  default: true 
  type: boolean 
deviceModel: 
  type: string 
deviceOnboardingType: 
  type: string 
deviceOnboardInformation: 
  additionalProperties: 
    type: object 
  type: object 
LegacyServiceOrderResponse: 
  example: 
    transactionUUID: transactionUUID 
    serviceInstanceIds: 
      - serviceInstanceIds 
      - serviceInstanceIds 
    devices: 
      - '{ }' 
      - '{ }' 
    sites: 
      - '{ }' 
      - '{ }' 
    message: message 
    subscriptionId: subscriptionId 
    url: url 
    status: status 
properties: 
  message: 
    type: string 
  transactionUUID: 
    format: uuid 
    type: string 
  subscriptionId: 
    type: string 
  url: 
    type: string 
  status: 
    type: string
serviceInstanceIds:
  items:
    type: string
    type: array
sites:
  items:
    type: object
    type: array
devices:
  items:
    type: object
    type: array
type: object

Site:
example:
  image: image
  address:
    country: country
    address2: address2
    city: city
    address1: address1
  name: name
  company: company
  postCode: postCode
  state: state
devices:
  - serviceType: serviceType
    serviceId: serviceId
    deviceId: deviceId
  - serviceType: serviceType
    serviceId: serviceId
    deviceId: deviceId
description: description
type: type
createdAt: 2000-01-23T04:56:07.000+00:00
parentID: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
modifiedOn: 2000-01-23T04:56:07.000+00:00
createdBy: createdBy
contact:
  phone: phone
  name: name
  email: email
tenantID: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
name: name
attributes:
  key: attributes
location:
  latitude: -75.5850925717018
longitude: 36.988422590534526
modifiedBy: modifiedBy
id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
status:
  severity: severity
lastUpdated: 2000-01-23T04:56:07.000+00:00
name: unknown
type: unknown
lastUpdatedMessage: lastUpdatedMessage
value: unknown
properties:
id:
  format: uuid
  readOnly: true
  type: string
tenantId:
  format: uuid
  type: string
parentId:
  format: uuid
  type: string
name:
  maxLength: 128
  minLength: 1
  type: string
type:
  maxLength: 128
  pattern: ^[-_a-zA-Z0-9]*$
  type: string
description:
  maxLength: 256
  type: string
address:
  $ref: '#/components/schemas/SiteAddress'
contact:
  $ref: '#/components/schemas/SiteContact'
image:
  maxLength: 40000
  type: string
attributes:
  additionalProperties:
    type: string
type: object
devices:
  items:
    $ref: '#/components/schemas/DeviceSummary'
type: array
location:
SiteLocation

status:

SiteStatus

createdOn:

format: date-time
readOnly: true
type: string
createdBy:

readOnly: true
type: string
modifiedOn:

format: date-time
readOnly: true
type: string
modifiedBy:

readOnly: true
type: string
type: object
DeviceSummary:

element:

serviceType: serviceType
serviceId: serviceId
deviceId: deviceId
properties:

deviceId:

type: string
serviceId:

type: string
serviceType:

type: string
type: object
SiteStatus:

element:

severity: severity
lastUpdated: 2000-01-23T04:56:07.000+00:00
name: unknown
type: unknown
lastUpdatedMessage: lastUpdatedMessage
value: unknown
properties:

type:

default: unknown
maxLength: 128
minLength: 1
type: string
name:

default: unknown
maxLength: 128
SiteCreate:
  allOf:
  - $ref: '#/components/schemas/SiteCreate_allOf'
  - $ref: '#/components/schemas/SiteUpdate'
SiteUpdate:
  example:
    image: image
    address:
      country: country
      address2: address2
      city: city
      address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
    contact:
      phone: phone
      name: name
      email: email
    name: name
    description: description
    location:
latitude: -75.5850925717018
longitude: 36.988422590534526
attributes:
  key: attributes
type: type
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  parentId:
    format: uuid
type: string
name:
  maxLength: 128
  minLength: 1
type: string
description:
  maxLength: 256
type: string
type:
  maxLength: 128
  pattern: ^\[-_a-zA-Z0-9]*$  
type: string
address:
  $ref: '#/components/schemas/SiteAddress'
contact:
  $ref: '#/components/schemas/SiteContact'
location:
  $ref: '#/components/schemas/SiteLocation'
image:
  maxLength: 40000
  type: string
attributes:
  additionalProperties:
    type: string
type: object
required:
  - name
  type: object
SiteAddress:
example:
  country: country
  address2: address2
  city: city
  address1: address1
  name: name
  company: company
  postCode: postCode
  state: state
properties:
name:
  type: string
company:
  type: string
address1:
  minLength: 1
type: string
address2:
  type: string
city:
  minLength: 1
type: string
state:
  minLength: 1
type: string
country:
  minLength: 1
type: string
postCode:
  minLength: 1
type: string
required:
  - address1
  - city
  - country
  - postCode
  - state
type: object
SiteContact:
example:
  phone: phone
  name: name
  email: email
properties:
  name:
    type: string
  phone:
    type: string
  email:
    format: email
type: object
  required:
    - name
    - phone
type: object
SiteLocation:
example:
  latitude: -75.5850925717018
longitude: 36.988422590534526
properties:
  latitude:
    format: double
    maximum: 90
    minimum: -90
    type: number
  longitude:
    format: double
    maximum: 180
    minimum: -180
    type: number
required:
  - latitude
  - longitude
type: object
SitesPage:
allOf:
  - $ref: '#/components/schemas/PageHeader'
  - $ref: '#/components/schemas/SitesPage_allOf'
ResourceType:
enum:
  - service
  - device
  type: string
ResourceStatus:
enum:
  - up
  - down
  - unknown
  type: string
ResourceHealth:
example:
  description: description
  id: id
properties:
  id:
    type: string
type:

  $ref: '#/components/schemas/ResourceType'
  status:
    $ref: '#/components/schemas/ResourceStatus'
description:
  maxLength: 256
type: string
required:
  - id
  - status
- type
  type: object
AccessToken:
  example:
    access_token: access_token
    firstName: firstName
    lastName: lastName
    scope: scope
    roles:
      - roles
      - roles
    id_token: id_token
    tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    token_type: token_type
    expires_in: 0
    email: email
    username: username
  properties:
    access_token:
      type: string
    token_type:
      type: string
    expires_in:
      type: integer
    scope:
      type: string
    firstName:
      type: string
    lastName:
      type: string
    roles:
      items:
        type: string
      type: array
    id_token:
      type: string
    tenantId:
      format: uuid
      type: string
    email:
      format: email
      type: string
    username:
      type: string
    type: object
  body:
  properties:
    grant_type:
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type: string
username:
type: string
password:
  format: password
type: string
access_token:
  type: string
switch_username:
  type: string
tenant_id:
  format: uuid
type: string
scope:
  type: string
nonce:
  type: string
tenant_name:
  type: string
required:
- grant_type
type: object
Role:
  example:
    permissions:
    - permissions
    - permissions
    name: name
    description: description
    id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  id:
    format: uuid
type: string
name:
  type: string
description:
  type: string
permissions:
  items:
    type: string
type: array
type: object
Tenant:
allOf:
- $ref: '#/components/schemas/Tenant_allOf'
- $ref: '#/components/schemas/TenantCreate'
TenantCreate:
example:
  image: image
  numberOfChildren: 0
  name: name
  description: description
  url: url
  parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
  description:
    maxLength: 512
    minLength: 1
    type: string
  url:
    type: string
  image:
    maxLength: 40000
    type: string
  parentId:
    format: uuid
    type: string
  numberOfChildren:
    format: int64
    readOnly: true
    type: integer
required:
- name

type: object
TenantUpdate:
example:
  image: image
  numberOfChildren: 0
  name: name
  description: description
  url: url
  parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
  description:
    maxLength: 512
    minLength: 1
    type: string
items:
  format: uuid
  type: string
  type: array
tenantIds:
  items:
    format: uuid
    type: string
    type: array
passwordPolicyName:
  type: string
required:
  - email
  - lastName
  - passwordPolicyName
type: object
UpdatePassword:
example:
  oldPassword: oldPassword
  newPassword: newPassword
  username: username
properties:
  username:
    type: string
  oldPassword:
    format: password
    type: string
  newPassword:
    format: password
    type: string
required:
  - newPassword
  - oldPassword
  - username
type: object
UsersPage:
allOf:
  - $ref: '#/components/schemas/PageHeader'
  - $ref: '#/components/schemas/UsersPage_allOf'
WorkflowFooter:
properties:
  created_on:
    type: string
  created_by:
    type: string
  updated_on:
    type: string
  updated_by:
type: string
owner:
  type: string
unique_name:
  type: string
type: object
StartWorkflowResponse:
example:
definition_id: definition_id
base_type: base_type
created_on: created_on
schema_id: schema_id
id: id
type: type
version: version
created_by: created_by
status:
  key: '{}'
properties:
id:
  type: string
definition_id:
  type: string
schema_id:
  type: string
type:
  type: string
base_type:
  type: string
status:
  additionalProperties:
    type: object
type: object
version:
  type: string
created_by:
  type: string
created_on:
  type: string
type: object
ValidateWorkflowResponse:
example:
  workflow_valid: true
total_valid: 6
total_actions: 0
invalid_action_ids:
  - invalid_action_ids
  - invalid_action_ids
properties:
  total_actions:
    type: integer
  total_valid:
    type: integer
  workflow_valid:
    type: boolean
  invalid_action_ids:
    type: array
Workflow:
  allOf:
    - $ref: '#/components/schemas/Workflow_allOf'
    - $ref: '#/components/schemas/WorkflowFooter'
WorkflowMetadata:
  properties:
    git_info:
      $ref: '#/components/schemas/WorkflowMetadata_git_info'
      type: object
WorkflowVariable:
  allOf:
    - $ref: '#/components/schemas/WorkflowVariable_allOf'
    - $ref: '#/components/schemas/WorkflowFooter'
WorkflowAction:
  example:
    workflow_id: workflow_id
    ended_on: ended_on
    object_type: object_type
    blocks:
      - unique_name: unique_name
        workflow_id: workflow_id
        base_type: base_type
        object_type: object_type
        subworkflow_id: subworkflow_id
        name: name
        schema_id: schema_id
        title: title
        type: type
        version: version
        actions:
          - null
          - null
        properties:
          key: '{}'
          - unique_name: unique_name
            workflow_id: workflow_id
base_type: base_type
object_type: object_type
subworkflow_id: subworkflow_id
name: name
schema_id: schema_id
title: title
type: type
version: version
actions:
- null
- null
properties:
  key: '{}'
description: description
title: title
type: type
output:
  key: '{}'
definition_id: definition_id
unique_name: unique_name
base_type: base_type
started_on: started_on
schema_id: schema_id
name: name
adapter_id: adapter_id
id: id
started_by: started_by
properties:
  key: '{}'
status:
  key: '{}'
properties:
  id:
    type: string
workflow_id:
  type: string
definition_id:
  type: string
schema_id:
  type: string
adapter_id:
  type: string
unique_name:
  type: string
name:
  type: string
title:
  type: string
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```json

type:
  type: string
base_type:
  type: string
properties:
  additionalProperties:
    type: object
    type: object
object_type:
  type: string
started_by:
  type: string
blocks:
  items:
    $ref: '#/components/schemas/WorkflowActionBlock'
  type: array
status:
  additionalProperties:
    type: object
    type: object
description:
  type: string
output:
  additionalProperties:
    type: object
    type: object
started_on:
  type: string
ended_on:
  type: string
type: object
WorkflowActionBlock:
  example:
    unique_name: unique_name
    workflow_id: workflow_id
    base_type: base_type
    object_type: object_type
    subworkflow_id: subworkflow_id
    name: name
    schema_id: schema_id
    title: title
    type: type
    version: version
    actions:
    - null
    - null
    properties:
      key: '{}'
properties:
  unique_name:
    type: string
name:
  type: string
title:
  type: string
type:
  type: string
version:
  type: string
base_type:
  type: string
properties:
  additionalProperties:
    type: object
object_type:
  type: string
actions:
  items:
    $ref: '#/components/schemas/WorkflowAction'
type: array
subworkflow_id:
  type: string
workflow_id:
  type: string
schema_id:
  type: string
type: object
WorkflowMapping:
example:
  modifiedOn: modifiedOn
uniqueName: uniqueName
createdBy: createdBy
modifiedBy: modifiedBy
id: id
createdOn: createdOn
tenantIds:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  id:
    type: string
tenantIds:
  items:
    format: uuid
type: string
type: array
uniqueName:
type: string
createdBy:
type: string
createdOn:
type: string
modifiedBy:
type: string
modifiedOn:
type: string
type: object
WorkflowStartConfig:
example:
input_variables:
- null
- null
type_of_target_needed: type_of_target_needed
target_id: target_id
properties:
input_variables:
items:
$ref: '#/components/schemas/WorkflowVariable'
type: array
type_of_target_needed:
type: string
target_id:
type: string
type: object
WorkflowCategory:
allOf:
- $ref: '#/components/schemas/WorkflowCategory_allOf'
- $ref: '#/components/schemas/WorkflowFooter'
WorkflowCategoryCreate:
example:
unique_name: unique_name
name: name
schema_id: schema_id
description: description	title: title
properties:
name:
  maxLength: 128
  minLength: 1
type: string
title:
  maxLength: 128
  minLength: 1
WorkflowCategoryUpdate:
example:
  unique_name: unique_name
  name: name
  schema_id: schema_id
  description: description
  title: title
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
  title:
    maxLength: 128
    minLength: 1
    type: string
description:
    maxLength: 256
    minLength: 1
    type: string
schema_id:
  type: string
unique_name:
  type: string
required:
- description
- name
- schema_id
- title
WorkflowEvent:
allOf:
- $ref: '#/components/schemas/WorkflowEvent_allOf'
WorkflowEventCreate:
  allOf:
  - $ref: '#/components/schemas/WorkflowFooter'

WorkflowEventUpdate:
  example:
    schema_id: schema_id
    description: description
    target_id: target_id
    title: title
    properties:
      key: '{}'
      properties:
        title:
          type: string
        description:
          type: string
        target_id:
          type: string
        schema_id:
          type: string
      properties:
        additionalProperties:
          type: object
      type: object
  required:
  - properties
  - schema_id
  - target_id
  - title
  type: object

WorkflowInstance:
  allOf:
  - $ref: '#/components/schemas/WorkflowInstance_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'

WorkflowInstanceDeleteResponse:
  example:
    deleted_child_workflow_instance_ids:
      - deleted_child_workflow_instance_ids
      - deleted_child_workflow_instance_ids
  properties:
    deleted_child_workflow_instance_ids:
      items:
        type: string
      type: array
      type: object

WorkflowSchema:
  allOf:
WorkflowAccessMeta:
                  properties:
                    adapter:
                      $ref: '#/components/schemas/WorkflowAccessMetaType'
                    runtime_users:
                      items:
                        $ref: '#/components/schemas/WorkflowAccessMetaType'
                      type: array
                    targets:
                      items:
                        $ref: '#/components/schemas/WorkflowAccessMetaType'
                      type: array
                    is_integration:
                      type: boolean
                    is_internal:
                      type: boolean
                  type: object

WorkflowAccessMetaType:
                  properties:
                    id:
                      type: string
                    type:
                      type: string
                    version:
                      type: string
                  type: object

WorkflowSchemaByTypeResponse:
                  example: {}
                  properties:
                    view_schema:
                      $ref: '#/components/schemas/WorkflowSchema'
                    data_schema:
                      $ref: '#/components/schemas/WorkflowSchema'
                  type: object

WorkflowTarget:
                  allOf:
                    - $ref: '#/components/schemas/WorkflowTarget_allOf'
                    - $ref: '#/components/schemas/WorkflowFooter'

WorkflowDefAccessMeta:
                  properties:
                    is_integration:
                      type: boolean
                    is_internal:
                      type: boolean
                  type: object

WorkflowTargetCreate:
allOf:
- $ref: '#/components/schemas/WorkflowTargetUpdate'

WorkflowTargetUpdate:
example:
  unique_name: unique_name
  name: name
  schema_id: schema_id
  description: description
  title: title
  type: type
  properties:
    key: '{}
  properties:
    name:
      type: string
    description:
      type: string
    title:
      type: string
    schema_id:
      type: string
  type:
    type: string
  properties:
    additionalProperties:
      type: object
  type: object
unique_name:
  type: string
required:
- name
- properties
type: object

WorkflowMetadata_git_info:
properties:
  target_id:
    type: string
  commit_hash:
    type: string
  committed_by:
    type: string
  committed_on:
    type: string
  commit_message:
    type: string
required:
- target_id
- commit_message
type: object

ErrorDTO:
properties:
code:
  readOnly: true
type: string
message:
  readOnly: true
type: string
type: object
ManagedDeviceSiteDTO:
example:
  templateDetails:
    - templateName: templateName
deviceParams:
    - allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
- allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
templateId: templateId
- templateName: templateName
deviceParams:
  - allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
- allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
templateId: templateId
deviceNedId: deviceNedId
deviceType: deviceType
deviceInstanceId: deviceInstanceId
deviceUsername: deviceUsername
siteName: siteName
siteDescription: siteDescription
deviceInterfaces:
  - nedId: nedId
    roles:
    - roles
    - roles
    name: name
    snmp: snmp
  - nedId: nedId
    roles:
    - roles
    - roles
    name: name
    snmp: snmp
enableSecureTunnel: enableSecureTunnel
siteInfo:
  key: siteInfo
deviceIpAddress: deviceIpAddress
deviceSerial: deviceSerial
modifiedOn: modifiedOn
tenantName: tenantName
tenantDisplayName: tenantDisplayName
tenantId: tenantId
siteId: siteId
devicePort: devicePort
deviceModel: deviceModel
subscriptionId: subscriptionId
deviceOnboardingType: deviceOnboardingType
deviceSecondaryPassword: deviceSecondaryPassword
devicePassword: devicePassword
properties:
templateDetails:
  items:
  - $ref: '#/components/schemas/ManagedDeviceTemplateDetailsDTO'
type: array
tenantId:
type: string
siteId:
type: string
siteName:
type: string
tenantName:
type: string
tenantDisplayName:
  type: string
siteDescription:
  type: string
subscriptionId:
  type: string
deviceInstanceId:
  type: string
deviceInterfaces:
  items:
    $ref: '#/components/schemas/ManagedDeviceDeviceInterfaceDTO'
  type: array
siteInfo:
  additionalProperties:
    type: string
deviceSerial:
  type: string
deviceModel:
  type: string
deviceOnboardingType:
  type: string
deviceIpAddress:
  type: string
devicePort:
  type: string
deviceUsername:
  type: string
devicePassword:
  type: string
deviceSecondaryPassword:
  type: string
deviceNedId:
  type: string
deviceType:
  type: string
enableSecureTunnel:
  type: string
modifiedOn:
  type: string
type: object
ManagedDeviceTemplateDetailsDTO:
example:
  templateName: templateName
deviceParams:
  - allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
- allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText

templateId: templateId
properties:
templateId:
type: string
templateName:
type: string
deviceParams:
items:
  $ref: '#/components/schemas/ManagedDeviceParameter'
type: array
type: object
ManagedDeviceParameter:
example:
  allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
properties:
name:
type: string
hintText:
type: string
label:
type: string
type:
type: string
displayType:
type: string
allowedValues:
type: string
value:
type: string
toolTipText:
  type: string
type: object
ManagedDeviceDeviceInterfaceDTO:
example:
  nedId: nedId
  roles:
    - roles
    - roles
  name: name
  snmp: snmp
properties:
  name:
    type: string
  roles:
    type: array
  snmp:
    type: string
  nedId:
    type: string
type: object
ManagedDeviceTemplateDTO:
example:
  sitesList:
    - sitesList
    - sitesList
  templateName: templateName
  payload: payload
  validators:
    - '{ }'
    - '{ }'
  tenantList:
    - tenantList
    - tenantList
  description: description
  templateId: templateId
properties:
  templateId:
    type: string
  templateName:
    type: string
  payload:
    type: string
  description:
    type: string
sitesList:
  items:
    type: string
  type: array
tenantList:
  items:
    type: string
  type: array
validators:
  items:
    type: object
  type: array
type: object
Error:
  properties:
    code:
      readOnly: true
      type: string
    message:
      readOnly: true
      type: string
    type: object
NameValue:
  example:
    name: name
    value: value
  properties:
    name:
      type: string
    value:
      type: string
    type: object
StringArray:
  items:
    type: string
  type: array
UuidArray:
  items:
    format: uuid
    type: string
  type: array
PageHeader:
  properties:
    page:
      format: int32
      readOnly: true
      type: integer
    pageSize:
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```json
format: int32
readOnly: true
type: integer
totalItems:
format: int64
readOnly: true
type: integer
hasNext:
nullable: true
readOnly: true
type: boolean
hasPrevious:
nullable: true
readOnly: true
type: boolean
sortBy:
readOnly: true
type: string
sortOrder:
enum:
- asc
- desc
readOnly: true
type: string
type: object
Name:
maxLength: 128
minLength: 1
type: string
Label:
maxLength: 128
minLength: 1
type: string
Description:
maxLength: 512
minLength: 1
type: string
Product_allOf:
properties:
id:
format: uuid
readOnly: true
type: string
ProductsPage_allOf:
properties:
contents:
items:
$ref: '#/components/schemas/Product'
```
type: array
Offer_allOf:
properties:
id:
  format: uuid
  type: string
OffersPage_allOf:
properties:
  contents:
    items:
      $ref: '#/components/schemas/Offer'
      type: array
Device_allOf:
properties:
id:
  type: string
userId:
  format: uuid
  type: string
providerId:
  format: uuid
  type: string
createdOn:
  format: date-time
  type: string
modifiedOn:
  format: date-time
  type: string
DeviceCreate_allOf:
properties:
  serviceId:
    type: string
  subscriptionId:
    type: string
tenantId:
  format: uuid
  type: string
required:
  - tenantId
DevicesPage_allOf:
properties:
  contents:
    items:
      $ref: '#/components/schemas/Device'
      type: array
DeviceTemplate_allOf:
properties:
id:
TenantsPage_allOf:
properties:
  contents:
    items:
      $ref: '#/components/schemas/Tenant'
    type: array

User_allOf:
properties:
  id:
    format: uuid
    readOnly: true
    type: string
  status:
    type: string
  deleted:
    type: string

UserCreate_allOf:
properties:
  username:
    type: string
  password:
    format: password
    type: string
  required:
    - password

UsersPage_allOf:
properties:
  contents:
    items:
      $ref: '#/components/schemas/User'
    type: array

Workflow_allOf:
properties:
  id:
    type: string
  schema_id:
    type: string
  name:
    type: string
  title:
    type: string
  type:
    type: string
  base_type:
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type: object
data_type:
  type: string
scope:
  type: string
WorkflowCategory_allOf:
  properties:
    id:
      type: string
    schema_id:
      type: string
    name:
      type: string
title:
      type: string
type:
      type: string
base_type:
  type: string
description:
  type: string
category_type:
  type: string
object_type:
  type: string
WorkflowEvent_allOf:
  properties:
    id:
      type: string
    name:
      type: string
title:
      type: string
type:
      type: string
base_type:
  type: string
schema_id:
  type: string
properties:
  additionalProperties:
    type: object
type: object
WorkflowInstance_allOf:
  properties:
    id:
      type: string
definition_id:
type: string
name:
type: string
schema_id:
type: string
version:
type: string
type:
type: string
base_type:
type: string
properties:
additionalProperties:
type: object
type: object
actions:
items:
$ref: '#/components/schemas/WorkflowAction'
type: array
variables:
items:
$ref: '#/components/schemas/WorkflowVariable'
type: array
status:
additionalProperties:
type: object
type: object
started_on:
type: string
ended_on:
type: string
WorkflowSchema_allOf:
properties:
id:
type: string
schema_id:
type: string
name:
type: string
title:
type: string
description:
type: string
type:
type: string
base_type:
type: string
version:
type: string
invisible:
  type: boolean
inherits:
  type: string
access_meta:
  $ref: '#/components/schemas/WorkflowAccessMeta'
variable_schema:
  additionalProperties:
    type: object
type: object
property_schema:
  additionalProperties:
    type: object
type: object
output_schema:
  additionalProperties:
    type: object
type: object
view_config:
  additionalProperties:
    type: object
type: object
attributes:
  additionalProperties:
    type: object
type: object
WorkflowTarget_allOf:
  properties:
    id:
      type: string
    schema_id:
      type: string
    adapter_id:
      type: string
    name:
      type: string
title:
      type: string
type:
      type: string
    base_type:
      type: string
    properties:
      additionalProperties:
        type: object
        type: object
valid:
type: boolean
def_access_meta:
  $ref: '#/components/schemas/WorkflowDefAccessMeta'
securitySchemes:
  BearerAuth:
    scheme: bearer
    type: http

Found in path(s):
* /opt/cola/permits/1118213626_1610574911.690/msx-platform-go-client-1-0-4-zip/msx-platform-go-client-1.0.4/api/openapi.yaml

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* @param properties the properties to be passed into the
* { @code createEntityManager} call (may be { @code null})
* @param entityManagerInterfaces the interfaces to be implemented by the
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* @return a shareable transactional EntityManager proxy
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* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/hibernate5/HibernateTransactionManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java
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  jar/org/springframework/orm/hibernate5/support/HibernateDaoSupport.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/support/OpenSessionInViewInterceptor.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/hibernate5/support/AsyncRequestInterceptor.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/local/LocalEntityManagerFactoryBean.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/LocalEntityManagerFactoryBean.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaDialect.java

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* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/hibernate5/support/HibernateDaoSupport.java
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  jar/org/springframework/orm/jpa/support/OpenSessionInViewInterceptor.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/hibernate5/support/AsyncRequestInterceptor.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/local/LocalEntityManagerFactoryBean.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/local/LocalEntityManagerFactoryBean.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
  jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaDialect.java
1.503 reactive-streams 1.0.3

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.506 api 1.1.0

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

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* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/重要的/KeyHolder.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
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* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
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The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
- Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and...
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Development by Rod Johnson (Wrox, 2002).

*/

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 */

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

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

Found in path(s):
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
  jar/org/springframework/jdbc/core/ParameterMapper.java
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* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2.jar/org/springframework/jdbc/SQLWarningException.java

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1.512 libxi 1.7.9-1

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1.513 uuid 1.1.1

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1.515 zipkin-sender-activemq-client 2.15.0
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.activemq
Bnd-LastModified: 1589702730253
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Sender: ActiveMQ Client 5.15.x
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-activemq-client
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.activemq;version="2.15.0";uses:="org.apache.activemq,zipkin2,zipkin2.codec,zipkin2.reporter"
Import-Package: javax.jms;version="[1.1,2)";org.apache.activemq;version="[5.15,6)",org.apache.activemq.transport;version="[5.15,6)".zipkin2.version="[2.21,3)".zipkin2.codec;version="[2.21,3)".zipkin2.reporter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):

1.516 util-deprecate 1.0.2

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1.517 bzip2 1.0.6 9.2~deb10u1
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1.518 toml 0.3.1
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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.520 public-encrypt 4.0.3

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1.521 springfox-spring-web 3.0.0

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* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
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jar/io/netty/handler/ssl/OpenSslSessionStats.java
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jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
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jar/io/netty/handler/ipfilter/package-info.java
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jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
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* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java

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jar/io/netty/handler/traffic/package-info.java
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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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jar/io/netty/handler/traffic/TrafficCounter.java
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.jar/io/netty/handler/pcap/UDPPacket.java
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jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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jar/io/netty/handler/timeout/WriteTimeoutException.java
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* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
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* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/timeout/package-info.java
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* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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  jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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1.546 gocql v0.0.0-20210413161705-87a5d7a5ff74

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1.547 sqlx 1.2.0

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1.548 spring-cloud-starter-netflix-hystrix

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1.549 cpp releases-gcc-10.2.0

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:
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svn://gcc.gnu.org/svn/gcc/     (for prereleases)
ftp://sourceware.org/pub/newlib/  (for newlib)
git://git.savannah.gnu.org/gm2.git  (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-10</td>
<td>libgnat-10</td>
<td>gnat-10-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-10</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-10</td>
<td>gcc-10-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-10</td>
<td>libstdc++6</td>
<td>libstdc++6-10-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-10</td>
<td>libgfortran5</td>
<td>gfortran-10-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-10</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-10</td>
<td>libobjc4</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-10</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-10-dbgsym</td>
<td>libstdc++6-10-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-10-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-10-base  Base files common to all compilers
gcc-10-soft-float  Software floating point (ARM only)
gcc-10-source  The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10  GNAT version library

C:
cpp-10, cpp-10-doc  GNU C Preprocessor
libssp0-dev, libssp0
GCC stack smashing protection library
libquadmath0
Math routines for the __float128 type
fixincludes
Fix non-ANSI header files

C, C++, and Fortran 95:
libgomp1-dev, libgomp1
GCC OpenMP (GOMP) support library
libitm1-dev, libitm1
GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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gcc/tysystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
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- libstdc++-v3
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Written by Tobias Burnus <burnus@net-b.de>

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  * Cygnus Support, drepper@cygnus.com.

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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
- d/phobos/*

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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    Name: "Simplified BSD License",
    PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
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    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `
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`,
}
}
package cmd

import (  "strings"  "time"

  "github.com/spf13/viper"
)

var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, ",", ","}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLGPL()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
    return License{Header: viper.GetString("license.header"),
                   Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
}
for key, lic := range Licenses {
for _, match := range lic.PossibleMatches {
if strings.EqualFold(name, match) {
    return key
}
}
}

return ""

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package cmd

func initGpl3() {
Licenses["gpl3"] = License{
    Name: "GNU General Public License 3.0",
    PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
    Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
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        Name:            "GNU Lesser General Public License",
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```go
package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name:        "GNU Affero General Public License",
    }
}
```
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
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1.560 client-javaproto 10.0.0

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* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-jar/org/objectweb/asm/tree/Util.java
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1092525220_1601878484.23/0/asm-tree-8-0-1-sources-jar/org/objectweb/asm/tree/package.html

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-el-api

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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* https://github.com/eclipse-ee4j/jersey

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1.574 spring-data-commons 2.3.1.RELEASE

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1.575 consul-api 1.4.5

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1.576 x-oauth2 v0.0.0-20210413134643-5e61552d6c78

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* /opt/cola/permits/1142784496_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/ConfigureRedisAction.java

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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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1.598 log4j-api 2.12.1

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1.601 jackson-jaxrs 2.11.0

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# Jackson JSON processor

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

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@@ -26,6 +26,7 @@
 package build.tools.cldrconverter;
 import java.util.Calendar;
 +import java.util.Date;
 import java.util.GregorianCalendar;
 import java.util.Locale;
 import java.util.TimeZone;
@@ -150,8 +151,14 @@
     } }

    private static int getYear() {
-        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-                                         Locale.US).get(Calendar.YEAR);
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+        calendar.setTime(date);
+        return calendar.get(Calendar.YEAR);
```java
import java.util.TimeZone;
import java.util.TreeMap;

private static String getOpenJDKCopyright() {
    int year = ZonedDateTime.now(ZoneId.of("America/Los_Angeles")).getYear();
    Date date = new Date();
    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
    }
    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
    calendar.setTime(date);
    int year = calendar.get(Calendar.YEAR);
    return String.format(Locale.US, COPYRIGHT, year);
}
```

1.604 httpasyncclient 4.1.4

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* /opt/cola/permits/1136317425_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/codec/Hex.java
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* /opt/cola/permits/1136317425_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-
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* /opt/cola/permits/1136317425_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /opt/cola/permits/1136317425_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
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 * @author Luke Taylor
 * @since 3.0
 * @deprecated Use java.util.Base64
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/AccessControlException.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/SLf4JLogBridge.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/SLf4JLogFactory.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/CodecLogScrubber.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/SLf4JLogLevelHandlers.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/SLf4JLogErrorHandler.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/LogScrubber.java
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* */

Found in path(s):
  */opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/codecs/XMLEntityCodec.java
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* @author Matt Seil (mseil .at. owasp.org)
* @created 2017
* @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
  * href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
* */

Found in path(s):
  */opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/DB2Codec.java
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 * *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
 * *
 * @created 2007
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultValidator.java
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 * */
The method is ESAPI's Key Derivation Function (KDF) that computes a derived key from the keyDerivationKey for either encryption / decryption or for authentication.

<param name="keyDerivationKey" type="SecretKey">A key used as an input to a key derivation function to derive other keys. This is the key that generally is created using some key generation mechanism such as CryptoHelper#generateSecretKey(String, int). The "input" key from which the other keys are derived. The derived key will have the same algorithm type as this key. This KDK cannot be null.

@param keySize The cipher's key size (in bits) for the keyDerivationKey. Must have a minimum size of 56 bits and be an integral multiple of 8-bits.

@param purpose The purpose for the derived key. For the ESAPI reference implementation, [%code JavaEncryptor], this <i>must</i> be either the string "encryption" or "authentication", where "encryption" is used for creating a derived key to use for confidentiality, and "authentication" is used for creating a derived key to use with a MAC to ensure message authenticity. However, since parameter serves the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can be set to anything other than [%code null] or an empty string when called outside of [%code JavaEncryptor].

@return The derived [%code SecretKey] to be used according to the specified purpose.

@throws NoSuchAlgorithmException The keyDerivationKey has an unsupported encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
*/

// version.

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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

/**
 * An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
 * in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
 * either specially logging the event, logging out the current user, or invalidating the current user's account.
 * @P
 * Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
 * anywhere and will not require a lot of special exception handling.
 *
 * @author Jeff Williams (jeff.williams@aspectsecurity.com)
 */
Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/errors/IntrusionException.java
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 *
 * @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */
/**
 * Return a { @code List} of strings of combined cipher modes that support
 * <b>both</b> confidentiality and authenticity. These would be preferred
 * cipher modes to use if your JCE provider supports them. If such a
 * cipher mode is used, no explicit <i>separate</i> MAC is calculated as part of
 * the { @code CipherText} object upon encryption nor is any attempt made
 * to verify the same on decryption.
 * </p><p>
 * The list is taken from the comma-separated list of cipher modes specified
 * by the ESAPI property
 * { @code Encryptor.cipher_modes.combined_modes}.
 *
 * @return The parsed list of comma-separated cipher modes if the property
 * was specified in { @code ESAPI.properties}; otherwise the empty list is
 * returned.
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/SecurityConfiguration.java
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* @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/SafeFile.java
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* 
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2009
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/PreparedString.java
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* 
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
 * { @inheritDoc }
 *
 * The reference implementation sets the work directory, escapes the parameters as per the Codec in use, 
 * and then executes the command without using concatenation. The exact, absolute, canonical path of each 
 * executable must be listed as an approved executable in the ESAPI properties. The executable must also 
 * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if 
 * you are going to invoke this interface with confidential information.
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/reference/DefaultExecutor.java

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/**
 * This methods adds a provider to the { @code SecurityManager}
 * either by some generic name or by the class name.
 * </p></p>
 * The following generic JCE provider names are built-in:
 * <ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)
 * </li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so
 * it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore,
 * the Cryptix JCE jars likely will not work as the Cryptix code signing
 * certificate has expired as of August 28, 2009. (This likely is true
 * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
 * provider is no longer offered as free, open source. It is not a
 * commercial product. See [ @link "http://jce.iaik.tugraz.at/" ] for
 * details. While some older versions were offered free, it is not clear
 * whether the accompanying license still allows you to use it, and if
 * it does, whether or not the code signing certificate used to sign
 * their JCE jar(s) has expired are not. Therefore, if you are looking
 * for a FOSS alternative to SunJCE, Bouncy Castle
 * ([@link "http://www.bouncycastle.org/"] is probably your best bet. The
 * BC provider does support many the "combined cipher modes" that provide
 * both confidentiality and authenticity. (See the { @code ESAPI.properties}
 * property { @code Encryptor.cipher_modes.combined_modes} for details.)
For those working in the U.S. federal government, it should be noted that none of the providers listed here are considered validated by NIST's Cryptographic Module Validation Program and are therefore not considered FIPS 140-2 compliant. There are a few approved JCE compatible Java libraries that are on NIST's CMVP list, but this list changes constantly so they are not listed here. For further details on NIST's CMVP, see [link "http://csrc.nist.gov/groups/STM/cmvp/index.html"].

Finally, if you wish to use some other JCE provider not recognized above, you must specify the provider's fully-qualified class name (which in turn must have a public, no argument constructor).

The application must be given the SecurityPermission with a value of insertProvider.&lt;provider_name&gt; (where &lt;provider_name&gt; is the name of the algorithm provider if a security manager is installed).

@code AlgProvider Name of the JCE algorithm provider. If the name contains a ".", this is interpreted as the name of a java.security.Provider class name.

@code pos The preference position (starting at 1) that the caller would like for this provider. If you wish for it to be installed as the last provider (as of the time of this call), set SecurityPermission to -1.

@returns The actual preference position at which the provider was added, or -1 if the provider was not added because it is already installed.

@exception NoSuchAlgorithmException - thrown if the provider class could not be loaded or added to the SecurityManager or any other reason for failure.

Found in path(s):
/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/crypto/SecurityProviderLoader.java

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*
* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/ESAPI.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
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* @created 2007
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessController.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessController.java

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* 
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/

// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java

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~ @created 2007

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 * @author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
 * @created 2009
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* @author Arshan Dabirsiahi <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2009
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/MustMatchRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/DefaultAction.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/EnforceHTTPSRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/InterceptingPrintWriter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/InterceptingServletOutputStream.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/HTTPMethodRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/configuration/AppGuardianConfiguration.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/Rule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/AddSecureFlagRule.java

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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created February 6, 2009
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 * @created 2007
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/SecurityWrapperResponse.java
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 *   the command to execute
 *
 * @param params
 *   the parameters of the command being executed
 *
 * @param workdir
 *   the working directory
 *
 * @param codec
 *   the codec to use to encode for the particular OS in use
 *
 * @param logParams
 *   use false if any parameters contains sensitive or confidential information
 *
 * @return the output of the command being run
 *
 * @throws ExecutorException
 *   the service exception
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Executor.java

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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 *
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>
 * (based on version 2.2.2).</p>
 */
The `<tt>options</tt>` parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as `encodeBytes(bytes, options)` the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds (though that breaks strict Base64 compatibility), and encoding using the URL-safe and Ordered dialects.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes(mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES);
```

to compress the data before encoding it and then making the output have no newline characters.

Original change Log:

- v2.2.2 - Fixed `encodeToFile` and `decodeToFile` to use the `Base64.InputStream` class to encode and decode on the fly which uses less memory than encoding/decoding an entire file into memory before writing.
- v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~< 40 bytes).
- v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a `main()` method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
  - default is RFC3548 format.
  - `Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT)` generates URL and file name friendly format as described in Section 4 of RFC3548. http://www.faqs.org/rfcs/rfc3548.html
  - `Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT)` generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html


- v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
- v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
- v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* <li>v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* <ul>
  * I am placing this code in the Public Domain. Do with it as you will.
  * This software comes with no guarantees or warranties but with
  * plenty of well-wishing instead!
  * Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
  * </ul>
* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/Base64.java

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@creator Jeff Williams

*/

Found in path(s):
/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/CSSCodec.java

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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a derived key from the \{code keyDerivationKey\} for either encryption / decryption or for authentication.
 * 
 * <p>
 * <div><b>CAUTION:</b> If this algorithm for computing derived keys from the key derivation key is \{i\}ever\{/i\} changed, we risk breaking backward compatibility of being able to decrypt data previously encrypted with earlier / different versions of this method. Therefore, do not change this unless you are 100% certain that what you are doing will NOT change either of the derived keys for ANY "key derivation key" AT ALL!!!</div>
 * 
 * <p>
 * <div><b>NOTE:</b> This method is generally not intended to be called separately. It is used by ESAPI's reference crypto implementation class \{code JavaEncryptor\} and might be useful for someone implementing their own replacement class, but generally it is not something that is useful to application client code.</div>
 * 
 * @param keyDerivationKey A key used as an input to a key derivation function to derive other keys. This is the key that generally is created using some key generation mechanism such as \{link #generateSecretKey(String, int)\}. The "input" key from which the other keys are derived. The derived key will have the same algorithm type as this key.
 * @param keySizeThe cipher's key size (in bits) for the \{code keyDerivationKey\}. Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
 * @param purposeThe purpose for the derived key. Must be either the string "encryption" or "authenticity". Use "encryption" for creating a derived key to use for confidentiality, and "authenticity" for a derived key to use with a MAC to ensure message authenticity.
 * @return The derived \{code SecretKey\} to be used according to the specified purpose. Note that this serves the same purpose as "label" in section 5.1 of NIST SP 800-108.
 * @throws NoSuchAlgorithmException The \{code keyDerivationKey\} has an unsupported encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original { @code UnsupportedEncodingException }
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use { @code KeyDerivationFunction} instead. This method will be removed as of
* ESAPI release 2.3 so if you are using this, please change your code.
*/
/**
 * Return true if specified cipher mode is one of those specified in the
 * [@code ESAPI.properties] file that supports both confidentiality
 * <b>&amp;nbsp;</b> and authenticity (i.e., a "combined cipher mode" as NIST refers
 * **
 * to it).
 * @param cipherMode The specified cipher mode to be used for the encryption
 * or decryption operation.
 * @return true if the specified cipher mode is in the comma-separated list
 * of cipher modes supporting both confidentiality and authenticity;
 * otherwise false.
 * @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
 */

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 * @author Matt Seil (mseil .at. owasp.org)
 * @created 2017
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Found in path(s):
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * 
 * @created 2007
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 * @author Rogan Dawes<a href="http://www.aspectsecurity.com">Aspect Security</a>
 * 
 * @created 2008
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* 
* @created 2010
*/

// Because attribute values may be confidential, we don't want to log them!

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
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jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/AbstractPushbackSequence.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/PushbackSequence.java

1.616 asm 2010.02.05
1.616.1 Available under license :

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jar/com/google/common/base/JdkPattern.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CommonMatcher.java
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 */

/*
 * Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
 * version.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java

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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/annotations/VisibleForTesting.java
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* the License.
*/
/**
* Holder for extra methods of {@code Object} only in web. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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jar/com/google/common/collection/SortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/SortedMultisets.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Throwables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LineReader.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Objects.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Resources.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Supplier.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Suppliers.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LineBuffer.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Resources.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/EnumMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Predicates.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/ByteStreams.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Defaults.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/FinalizableWeakReference.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures#catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
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*/

/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
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*/

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/BloomFilter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/ParseRequest.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/package-info.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Present.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Enums.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/HostAndPort.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Enums.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
jar/com/google/common/primitives/UnsignedLong.java
*/
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/EmptyContiguousSet.java
*/
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/BloomFilterStrategies.java
*/
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/CacheLoader.java
*/
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Uninterruptibles.java
*/
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/Cache.java
*/
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AtomicLongMap.java
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/**
* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
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*/

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/InterruptibleTask.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
jar/com/google/common/collection/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ComparisonChain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ArrayTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ComputationException.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/DiscreteDomain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/RegularImmutableList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/AbstractIndexedListIterator.java

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

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Platform.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/TreeBasedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableEntry.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Tables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Table.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Collections2.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Serialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Range.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashBasedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CollectPreconditions.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/PeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/StandardTable.java

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 */
/**
 * Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
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 */
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Ascii.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Atomics.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/annotations/package-info.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/annotations/Beta.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Monitor.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/package-info.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-Jar/com/google/common/primitives/package-info.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-Jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-Jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-Jar/com/google/common/eventbus/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-Jar/com/google/common/eventbus/Subscriber.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-Jar/com/google/common/util/concurrent/ListenerCallQueue.java

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  jar/com/google/common/io/MultiReader.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/base/CharMatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/base/internal/Finalizer.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/primitives/Ints.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/base/Converter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/escape/Escaper.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/collect/FluentIterable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/io/FileBackedOutputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/net/InetAddresses.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/primitives/Floats.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/primitives/Doubles.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/primitives/Longs.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/escape/UnicodeEscaper.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/net/PercentEscaper.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/primitives/Booleans.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/base/Stopwatch.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/primitives/Bytes.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Joiner.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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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/LongAddables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/Element.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CartesianList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CharSource.java
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*/
/*
* This following method is a modified version of one found in
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jar/com/google/common/hash/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 * *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {link
 * ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/NetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MapIteratorCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/EndpointPair.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Comparators.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/GraphConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/NetworkBuilder.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RangeSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Count.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
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  jar/com/google/common/reflect/Reflection.java

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  jar/com/google/common/collect/Hashing.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Ordering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MutableClassToFitInstanceMap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ExplicitOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Multiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Interner.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Sets.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingObject.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/HashMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/NaturalOrdering.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingListIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/LexicographicalOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/NullsLastOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ArrayListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/LinkedListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingConcurrentMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/EnumHashBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractMapBasedMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/CompoundOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/TreeMultimap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Synchronized.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ReverseOrdering.java
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  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap class.
  */

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Striped.java

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1.638 jnr-constants 0.9.9

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jar/org/springframework/security/web/server/authorization/AuthorizationContext.java
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/context/support/SecurityWebApplicationContextUtils.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/evaluation/EvaluationContextPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/evaluation/AbstractVariableEvaluationContextPostProcessor.java
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1.656 jsr305 3.0.2

1.657 guava 29.0-jre

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedLists.java

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 */
/**
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 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/coll/TransformedIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/coll/ForwardingBlockingDeque.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/coll/AbstractSortedKeySortedSetMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/coll/AbstractMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFutureTask.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Stopwatch.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Function.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Function.java
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/
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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
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Dispatcher.java
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jar/com/google/common/base/CommonPattern.java
 * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/ConsumingQueueIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/LittleEndianByteArray.java
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*/
/**
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
*/

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jar/com/google/common/primitives/DoublesMethodsForWeb.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/RegularImmutableSortedSet.java
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  jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/JdkBackedImmutableMultiset.java

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  jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/GwtTransient.java
jar/com/google/common/util/concurrent/AtomicLongMap.java
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jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/Count.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableDoubleArray.java
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/**
* Holder for web specializations of methods of [ @code Floats ]. Intended to be empty for regular
* version.
* /

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/MultimapBuilder.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashingOutputStream.java
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberExceptionContext.java
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 */

/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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* the License.
* */

/**
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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 */

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* jar/com/google/common/base/SmallCharMatcher.java
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 */
* <p>TODO(kevinb): support concurrently modified collections?
* 
* @param c the collection for which to return an array of elements
* */

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ObjectArrays.java
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  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingListMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardValueCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/UndirectedGraphConnections.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/PairStatsAccumulator.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractByteHasher.java
jar/com/google/common/math/Stats.java
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jar/com/google/common/math/PairStats.java
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jar/com/google/common/reflect/Invokable.java
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jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/Network.java
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jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b>
 * Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * 
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}</b>
 */

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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java

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jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/Traverser.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/MapMaker.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/UrlEscapers.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/io/ByteProcessor.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/AbstractService.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/DenseImmutableTable.java

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/*opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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1.659 miller-rabin 4.0.1

1.660 java-driver-core 4.6.1

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1.661 lib-pq v1.10.0

1.661.1 Available under license :

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package pq

import (  
    "context"  
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used to unset it. This is rarely used directly, use ConnectorNoticeHandler and // ConnectorWithNoticeHandler instead.
// Note: Notice handlers are executed synchronously by pq meaning commands won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.

Open Source Used In MSX Platform Services 4.0.0 4521
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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1.662 oklog-ulid v1.3.1
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1.663 e2fsprogs 1.46.2-1~bpo10+2

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..: $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:. $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall:. $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean:.
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..($)$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.665 jackson-databind 2.10.5.1

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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, as well as supported commercially by FasterXML.com.

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1.666 zipkin-reporter-metrics-micrometer

2.15.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.metrics.micrometer
Bnd-LastModified: 1589702936955
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Reporter Metrics by Micrometer
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-reporter-metrics-micrometer
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.metrics.micrometer;version="2.15.0";uses="io.micrometer.core.instrument,zipkin2.reporter"
Import-Package: io.micrometer.core.instrument,zipkin2.reporter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695463_1601878587.59/0/zipkin-reporter-metrics-micrometer-2-15-0-jar/META-INF/MANIFEST.MF

### 1.667 builder-annotations 0.22.0

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* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/visitors/InitEnricher.java
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io.sundr.builder.internal.processor.BuildableProcessor
io.sundr.builder.internal.processor.ExternalBuildableProcessor

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* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-jar/META-INF/services/javax.annotation.processing.Processor

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1.669 jaxb-core 10.6

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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/
The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
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 *
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/engine/messageinterpolation/TermResolver.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/metadata/raw/AbstractConstrainedElement.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForOffsetDateTime.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfByte.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/properties/javabean/JavaBeanAnnotatedConstrainable.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/cfg/context/AnnotationProcessingOptions.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/cfg/context/ConstraintDefinitionContextImpl.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/constraints/CreditCardNumber.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/cfg/defs/PastDef.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/EmailValidator.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/org/hibernate/validator/PredefinedScopeHibernateValidatorConfiguration.java
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/org/hibernate/validator/cfg/defs/NegativeOrZeroDef.java

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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/META-INF/validation-mapping-1.0.xsd
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/META-INF/validation-mapping-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/META-INF/validation-configuration-1.0.xsd
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/META-INF/validation-configuration-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/META-INF/validation-configuration-2.0.xsd
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-jar/META-INF/validation-mapping-2.0.xsd

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*/
/**
A method-level constraint, that evaluates a script expression against the annotated method or constructor. This constraint can be used to implement validation routines that depend on several parameters of the annotated executable.

Script expressions can be written in any scripting or expression language, for which a JSR 223 compatible engine can be found on the classpath. To refer to a parameter within the scripting expression, use its name as obtained by the active [link javax.validation.ParameterNameProvider]. The default provider will return the actual parameter names, if the -parameters compiler option has been enabled, and [code arg0], [code arg1] etc. otherwise.

The following listing shows an example using the JavaScript engine which comes with the JDK:

```
@ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
```

Can be specified on any method or constructor.

@author Gunnar Morling

```
*/
```
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jar/org/springframework/messaging/rsocket/RSocketStrategies.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/rsocket/RSocketRequester.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/rsocket/annotation/support/RSocketMessageHandler.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/converter/ProtobufJsonFormatMessageConverter.java

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 */
/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * [<a>QueueCapacity(int queueCapacity)</a> is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in [<a>java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor</a> for
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 * <p>By default this is set to <code>Integer.MAX_VALUE</code>.
 * */

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+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
@@ -26,6 +26,7 @@
 package build.tools.cldrconverter;
 import java.util.Calendar;
+import java.util.Date;
 import java.util.GregorianCalendar;
 import java.util.Locale;
 import java.util.TimeZone;
@@ -150,8 +151,14 @@
 }

 private static int getYear() {

- return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
- Locale.US).get(Calendar.YEAR);
+ Date date = new Date();
+ if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+     date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+ }
+ GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+ calendar.setTime(date);
+ return calendar.get(Calendar.YEAR);
}

// no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -33,9 +33,13 @@
import java.time.ZoneId;
import java.time.ZonedDateTime;
import java.util.ArrayList;
+import java.util.Calendar;
+import java.util.Date;
+import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
import java.util.Map;
+import java.util.TimeZone;
import java.util.TreeMap;

/**
 **
@@ -225,8 +229,15 @@
+ 
+ private static String getOpenJDKCopyright() {
- int year = ZonedDateTime.now(ZoneId
- .of("America/Los_Angeles")).getYear();
+ Date date = new Date();
+ if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+     date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+ }
+ GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+ calendar.setTime(date);
+ int year = calendar.get(Calendar.YEAR);
             return String.format(Locale.US, COPYRIGHT, year);
         }
     }

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/TreeTraverser.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingImmutableMap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/CompactHashMap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/DescendingMultiset.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Network.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/ImmutableSupplier.java
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jar/com/google/common/base/JdkPattern.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CommonMatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/PatternCompiler.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CommonPattern.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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jar/com/google/common/primitives/ShortsMethodsForWeb.java
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jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/escape/CharEscaper.java

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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  jar/com/google/common/collect/SortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/collect/SortedMultisets.java
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  jar/com/google/common/base/Throwables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/io/LineReader.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/util/concurrent/DirectExecutor.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.
 *
 * &lt;p&gt;We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Partially.java
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jar/com/google/common/graph/package-info.java
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This method was rewritten in Java from an intermediate step of the Murmur hash function in http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the following header:

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/BloomFilter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/ParseRequest.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/package-info.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Hashing.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/DoubleUtils.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/MediaType.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Funnels.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Funnel.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/LongMath.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/HashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/UnsignedInts.java
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/**
 * Holder for web specializations of methods of {code Doubles}. Intended to be empty for regular
 * version.
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jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ConsumingQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/CombinedFutureState.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ComputationException.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/TreeBasedTable.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/ImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/Collections2.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/Serialization.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/HashBasedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/ImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/ImmutableMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/ImmutableMapValues.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/CollectPreconditions.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources.jar/com/google/common/collection/RegularImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/collect/PeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Atomics.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java

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jar/com/google/common/base/Converter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/escape/Scaper.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FluentIterables.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/InetAddresses.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Floats.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Doubles.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Booleans.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Stopwatch.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Bytes.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Joiner.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Chars.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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  jar/com/google/common/cache/LongAddables.java
  */opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/reflect/Element.java
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  jar/com/google/common/hash/LongAddables.java
  */opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/math/StatsAccumulator.java
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  jar/com/google/common/collect/CartesianList.java
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  jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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  jar/com/google/common/collect/FilteredKeyMultimap.java
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  jar/com/google/common/io/CharSource.java
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  jar/com/google/common/io/ByteSink.java
  */opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/math/PairedStatsAccumulator.java
  */opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
  */opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/escape/package-info.java
  */opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/reflect/ClassPath.java
  */opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
  jar/com/google/common/reflect/TypeToInstanceMap.java
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  jar/com/google/common/reflect/MutableTypeToInstanceMap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableMultisetGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/EndpointPairIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/StandardMutableGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/StandardMutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/HashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/NetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/MutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/MapIteratorCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/EndpointPair.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Comparators.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RangeSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Count.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources.jar/com/google/common/graph/BaseGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources.jar/com/google/common/graph/Traverser.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources.jar/com/google/common/graph/AbstractBaseGraph.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/CompactHashing.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/IncidentEdgeSet.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Ordering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ExplicitOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Multiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Interner.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/Sets.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ComparatorOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingCollection.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractMapEntry.java

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

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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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default list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
Open Source Used In MSX Platform Services 4.0.0

http://openjdk.java.net/legal/gplv2+ce.html

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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1.709 jctools-core 3.0.0

1.709.1 Available under license:
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</inceptionYear>

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</scm>

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<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
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Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-4.2.0.201903051501

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* /opt/cola/permits/1150945500_1617726836.89/0/jctools-core-3-0-0-4-jar/META-INF/MANIFEST.MF

1.710 golang-snappy v0.0.1
1.710.1 Available under license:

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1.711 errors v0.9.1

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1.712 x-sys v0.0.0-20210119212857-b64e53b001e4

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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.716 zipkin-reporter-brave 2.15.0
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* /opt/cola/permits/1096695449_1601878448.74/0/zipkin-reporter-brave-2-15-0-sources-jar/zipkin2/reporter/brave/ConvertingZipkinSpanHandler.java
1.717 ribbon 2.3.0

1.718 trilead-ssh 1.0.0-build221

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1.719 spring-session-core 2.3.0.RELEASE

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* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/SingleIndexResolver.java
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/events/AbstractSessionEvent.java
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/config/SessionRepositoryCustomizer.java
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/SessionRepositoryFilter.java
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/ReactiveMapSessionRepository.java
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1.720 threedotslabs-watermill v1.1.1
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 analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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  */opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
  jar/org/springframework/cloud/stream/binder/ExtendedConsumerProperties.java

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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
  jar/org/springframework/cloud/stream/config/SmartPayloadArgumentResolver.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
  jar/org/springframework/cloud/stream/binder/ProducerProperties.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
  jar/org/springframework/cloud/stream/binder/DirectHandler.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
  jar/org/springframework/cloud/stream/binder/ConsumerProperties.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
  jar/org/springframework/cloud/stream/binder/ExtendedConsumerProperties.java
1.723 json5 0.1.1

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* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/bench_test.go
* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/tagkey_test.go
* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/tags_test.go
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* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/tags.go
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* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/fold_test.go
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* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/indent.go
* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/scanner.go
* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/scanner_test.go
* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/stream.go
* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/stream_test.go
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* /opt/cola/permits/1118213628_1610574845.96/0/yosuke-furukawa-json5-v0-1-1-0-g7f7ea50-tar-gz/yosuke-furukawa-json5-7f7ea50/encoding/json5/decode.go

1.724 commons-lang3 2.6
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Found in path(s):
1.726 hostname 3.21

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hostname -- set the host name or show the host/domain name

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1.727 jquery 3.5.1

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1.728 spring-security-core 5.3.3.RELEASE

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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/PasswordEncoder.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/NoOpPasswordEncoder.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/expression/method/MethodSecurityEvaluationContext.java

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* 
* @author Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/

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*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/method/MapBasedMethodSecurityMetadataSource.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/annotation/Jsr250MethodSecurityMetadataSource.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/annotation/Secured.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/annotation/SecuredAnnotationSecurityMetadataSource.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java
*/opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/AuthenticatedPrincipal.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/PasswordEncoderUtils.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/factory/PasswordEncoderFactories.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/SpringSecurityCoreVersion.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java

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*/
/**
 * Determines if the {link #getAuthentication()} has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the {link #getAuthentication()}, else
 * false
 */

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 */

/**
 * A token issued by [@link TokenService].
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
 * [@link TokenService] are free to use encryption or encoding strategies of their choice.
 * It is strongly recommended that keys are of sufficient length to balance safety against
 * persistence cost. In relation to persistence cost, it is strongly recommended that
 * returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
 */

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* Reviews the <code>Object</code> returned from a secure object invocation, being able to
* modify the <code>Object</code> or throw an {@link AccessDeniedException}.
* 
* Typically used to ensure the principal is permitted to access the domain object
* instance returned by a service layer bean. Can also be used to mutate the domain object
* instance so the principal is only able to access authorised bean properties or
* <code>Collection</code> elements.
* 
* Special consideration should be given to using an <code>AfterInvocationManager</code>
* on bean methods that modify a database. Typically an
* <code>AfterInvocationManager</code> is used with read-only methods, such as
* <code>public DomainObject getById(id)</code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the
* transaction.
* 
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/util/package-info.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/authority/mapping/MappableAttributesRetriever.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/package-info.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/prepost/PostInvocationAuthorizationAdvice.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/package-info.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/method/package-info.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/prepost/PostAuthorize.java
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/access/authentication/AccountStatusUserDetailsChecker.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/core/authority/mapping/GrantedAuthoritiesMapper.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/access/prepost/PreInvocationAuthorizationAdviceVoter.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/access/annotation/Jsr250Voter.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/access/prepost/package-info.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/access/expression/package-info.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/access/prepost/PrePostAnnotationSecurityMetadataSource.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/crypto/codec/package-info.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1.jar/org/springframework/security/context/DelegatingApplicationListener.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/authority/mapping/SimpleAuthorityMapper.java
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/provisioning/MutableUserDetails.java
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/AuthorizationEventPublisher.java

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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/token/SecureRandomFactoryBean.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/argon2/Argon2EncodingUtils.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/argon2/Argon2PasswordEncoder.java
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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/AbstractUserDetailsReactiveAuthenticationManager.java

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* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/jackson2/UnmodifiableSetDeserializer.java
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  jar/org/springframework/retry/annotation/AnnotationAwareRetryOperationsInterceptor.java
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  jar/org/springframework/retry/policy/SimpleRetryPolicy.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/classify/SubclassClassifier.java
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  jar/org/springframework/retry/annotation/Backoff.java
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  jar/org/springframework/retry/annotation/EnableRetry.java
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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/StatisticsListener.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/ExponentialAverageRetryStatistics.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/StatisticsRepository.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/MutableRetryStatistics.java

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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1- jar/org/springframework/retry/policy/CircuitBreakerRetryPolicy.java
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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1- jar/org/springframework/retry/policy/ExpressionRetryPolicy.java

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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1.jar/org/springframework/retry/annotation/RetryConfiguration.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1.jar/org/springframework/retry/backoff/ThreadWaitSleeper.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1.jar/org/springframework/retry/annotation/Retryable.java
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  jar/org/springframework/retry/policy/ExceptionClassifierRetryPolicy.java
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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
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  jar/org/springframework/classify/BackToBackPatternClassifier.java
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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/classify/ClassifierSupport.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/policy/MapRetryContextCache.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/RetryException.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/backoff/StatelessBackOffPolicy.java
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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/retry/support/RetrySynchronizationManager.java
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/annotation/Propagation.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/annotation/TransactionExecution.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/transaction/event/ApplicationListenerMethodTransactionalAdapter.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/TransactionDefinition.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java

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  jar/org/springframework/dao/DeadlockLoserDataAccessException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
  jar/org/springframework/transaction/UnexpectedRollbackException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
  jar/org/springframework/jca/work/DelegatingWork.java
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
  jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
  jar/org/springframework/transaction/jta/TransactionFactory.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
  jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
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  jar/org/springframework/dao/QueryTimeoutException.java

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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/core/ConnectionCallback.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/connection/ConnectionHolder.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/jta/珏eTransactionObject.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java

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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
  jar/org/springframework/transaction/SavepointManager.java

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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 */
Alternatively, the following adapter classes are provided for your convenience:

- `@link ChannelInboundHandlerAdapter` to handle inbound I/O events,
- `@link ChannelOutboundHandlerAdapter` to handle outbound I/O operations, and
- `@link ChannelDuplexHandler` to handle both inbound and outbound events.

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

### The context object

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

### State management

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

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

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

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

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

### Using `AttributeKey`s

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

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

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

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```
Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```
public class DataServerInitializer extends `@link ChannelInitializer`<`@link Channel`> {
    
    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
    
    `@code Override`
    public void initChannel(<b>@link Channel</b> channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
    
    </pre>
```

The `@code @Sharable` annotation

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

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

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

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

Additional resources worth reading

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

*/

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```
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1.764 lucene-spatial 7.7.3

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  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java}
  \item \texttt{analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java}
\end{itemize}

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- /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/SingletonStrategy.java
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1.777 sundr-core 0.22.0

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* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Function.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/FunctionFactory.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/TypedVisitor.java

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* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Fluent.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/SundrException.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/Function.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Nested.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/VisitableBuilder.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/BaseFluent.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Editable.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Visitor.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Builder.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Visitable.java
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* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/PathAwareTypedVisitor.java
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Predicate.java

1.778 threedotslabs-watermill v1.0.2
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1.779 lib-pq v1.10.1

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    // +build go1.10

    package pq

    import {
        "context"
        "database/sql/driver"
    }

    // NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
    func NoticeHandler(c driver.Conn) func(*Error) {
        return c.(*conn).noticeHandler
    }

    // SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used to unset it. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
    //
    // Note: Notice handlers are executed synchronously by pq meaning commands won't continue to be processed until the handler returns.
    func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
        c.(*conn).noticeHandler = handler
    }
// NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.

type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If the given connector is not a result of ConnectionWithNoticeHandler, nil is returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectionWithNoticeHandler creates or sets the given handler for the given connector. If the given connector is a result of calling this function previously, it is simply set on the given connector and returned. Otherwise, this returns a new connector wrapping the given one and setting the notice handler. A nil notice handler may be used to unset it.
func ConnectionWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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1.780 zipkin-core 2.21.1
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* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/JsonEscaper.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/WriteBuffer.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/ForwardingStorageComponent.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/codec/SpanBytesEncoder.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/Traces.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/SpanConsumer.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/ThriftField.java
1.781 brave-instrumentation-http 5.12.3

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1.796 sha.js 2.4.11

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1.798 rx-netty-contexts 0.4.9

1.799 x-time-rate v0.0.0-20190308202827-9d24e82272b4

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org.apache.groovy.json.DefaultFastStringServiceFactory

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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/util/ServletContextPropertyUtils.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/util/UriBuilderFactory.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/util/HierarchicalUriComponents.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/util/ServletContextPropertyUtils.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/server/session/DefaultWebSessionManager.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/server/handler/ExceptionHandlingWebHandler.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/server/NotAcceptableStatusException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/client/support/InterceptingHttpAccessor.java

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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/filter/RequestContextFilter.java
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 */
/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/shade/servlet/HttpServletException.java
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# application/alto-costmapfilter+json
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/AopProxy.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/AfterReturningAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
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jar/org/springframework/aop/target/SimpleBeanTargetSource.java
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jar/org/springframework/aop/framework/adapter/ThrowsAdviceAdapter.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/AdvisedSupportListener.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/IntroductionInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/RawTargetAccess.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/aopalliance/intercept/Invocation.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/aopalliance/intercept/Joinpoint.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/ProxyFactory.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/aopalliance/intercept/MethodInvocation.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java

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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java

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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/MethodMatchers.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
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1.824 threedotslabs-watermill-kafka v2.2.0

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1.826 brave-instrumentation-httpasyncclient

5.12.3

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java
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*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/CorruptedFrameException.java
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*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
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*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/DecoderException.java
*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/ReplayingDecoder.java
*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/ZlibWrapper.java
*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
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*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/xml/package-info.java
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*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/MessageAggregator.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/compression/CompressionException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/CodecException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/protobuf/Varint32FieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/protocol/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codecs/headers/HeadersUtils.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageAggregationException.java

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

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/ValueConverter.java
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 *{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 *that it can decode any message with a length field, which is often seen in
 *proprietary client-server protocols. Here are some example that will give
 *you the basic idea on which option does what.
 *
 *<h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 *The value of the length field in this example is 12 (0x0C) which
 *represents the length of "HELLO, WORLD". By default, the decoder assumes
 *that the length field represents the number of the bytes that follows the
 *length field. Therefore, it can be decoded with the simplistic parameter
 *combination.
 */
<pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
</pre>
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-------------+-------------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +-------------+-------------------+
* </pre>
*
* Before decode (14 bytes) after decode (14 bytes)
* +-------------+-------------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +-------------+-------------------+
* </pre>
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-------------+-------------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +-------------+-------------------+
* </pre>
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-------------+-------------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +-------------+-------------------+
* </pre>
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-------------+-------------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +-------------+-------------------+
* </pre>
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-------------+-------------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +-------------+-------------------+
* </pre>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

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

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

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

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

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

* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

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

* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------------+--------+------------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------------+--------+------------+----------------+
* </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

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

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

* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------------+--------+------------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------------+--------+------------+----------------+
* </pre>

* @see LengthFieldPrepender

*/

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Enumeration of supported Base64 dialects.

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* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/web/Swagger2ControllerWebMvc.java

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* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ExamplesMapper.java
* /opt/ws_local/PERMITS_SQL/1082517914_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/OAuth2AuthFactory.java

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sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/netty_unix_filedescriptor.h
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/netty_unix_filedescriptor.c
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/io/netty/channel/unix/UnixChannel.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java

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* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049801890_1591460396.48/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/DoubleAdder.java
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049801890_1591460396.48/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/Striped64.java
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1.862 websocket-client 9.4.29.v20200521

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.863 checker-compat-qual 2.5.5

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1.870 global 4.4.0

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1.872 go-restful-openapi 1.2.0

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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.  This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version {

 /**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion() {
}

/**
 * Print the processor version to the command line.
 */
public static void main(String argv[]) {
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.
 * Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg, implementation of a new W3C specification.
 * - API or behaviour change.
 */
* - its designated as a reference release.
*/

```java
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
```
Found in path(s):
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 */

/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPHandler
 * @xsl.usage internal
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java

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$Id: Version.src 468654 2006-10-28 07:09:23Z minchau$

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <p>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</p>
 * @xsl.usage general
 */

public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.

public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "+getMajorVersionNum()+"."+getReleaseVersionNum()+"."+
    (+ (getDevelopmentVersionNum() > 0) ?
    ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 */

* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/
public static int getMajorVersionNum()
{
  return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - it is designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
* Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
*/

public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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*/

/**
* Major version number.
* Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.
* Clients should carefully consider the implications of new versions as external interfaces and behaviour
*
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*/

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/compiler/FunctionTable.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_html.properties
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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC _xslt;
/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
* creates a StepPattern instead of just returning a node type. It also
* differs in the way it handles "[{uri}]:*" and "[{uri}]:@*". The last two
* patterns are expanded as "*[namespace-uri() = 'uri']" and
* "[@*][namespace-uri() = 'uri']", respectively. This expansion considerably
* simplifies the grouping of patterns in the Mode class. For this
* expansion to be correct, the priority of the pattern/template must be
* set to -0.25 (when no other predicates are present).
*/

class createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) {   // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();

        return new StepPattern(axis, nodeType, predicates);
    } else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*") ? -1
                : _xsltc.registerNamespacePrefix(name));
        } else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand [{uri}]:* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                }
                predicates = new Vector(2);
            }

            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);

            predicates.add(
                new Predicate( new EqualityExpr(Operators.EQ,
                    new QNameIgnoreDefaultNs(uri), predicates));
            )
        }
    }
}

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new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri));
}
if (local.equals("*")) {
   .nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
    : NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
    : _xsltc.registerElement(name);
}
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}
return result;
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
        (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
} else if (test instanceof Integer) {
    return ((Integer)test).intValue();
} else {
    QName name = (QName)test;
    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1
            : _xsltc.registerNamespacePrefix(name);
    }
    if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1
                : _xsltc.registerNamespacePrefix(name);
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();
if (local.equals("*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
    : NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}

return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
    : _xslt.registerElement(name);

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 *
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
return(result);
else
return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
_parser.reportError(Contracts.ERROR, error);
}

public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(Contracts.SYNTAX_ERR, _lineNumber,
_expression);
_parser.reportError(Contracts.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(Contracts.INTERNAL_ERR, "XPathParser.insertStep");
    return rlp;
}
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
   {: RESULT = pattern; :}
   | EXPRESSION Expr:expr
   {: RESULT = expr; :};

/* --------------------------- Patterns ----------------------------------- */
Pattern ::= LocationPathPattern:lpp
   {: RESULT = lpp; :}
   | LocationPathPattern:lpp VBAR Pattern:p
   {: RESULT = new AlternativePattern(lpp, p); :};
LocationPathPattern ::= SLASH
   {: RESULT = new AbsolutePathPattern(null); :}
   | SLASH RelativePathPattern:rpp
   {: RESULT = new AbsolutePathPattern(rpp); :}
   | IdKeyPattern:ikp
   {: RESULT = ikp; :}
   | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
   {: RESULT = new ParentPattern(ikp, rpp); :}
   | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
   {: RESULT = new AncestorPattern(ikp, rpp); :}
   | DSLASH RelativePathPattern:rpp
   {: RESULT = new AncestorPattern(rpp); :}
   | RelativePathPattern:rpp
   {: RESULT = rpp; :};
IdKeyPattern ::= ID LPAREN Literal:l RPAREN
   {: RESULT = new IdPattern(l);
       parser.setHasIdCall(true);
   :}
   | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
   {: RESULT = new KeyPattern(l1, l2); :};
ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
   [: RESULT = new ProcessingInstructionPattern(l); :];

RelativePathPattern ::= StepPattern:sp
   [: RESULT = sp; :]

   | StepPattern:sp SLASH RelativePathPattern:rpp
     [: RESULT = new ParentPattern(sp, rpp); :]

   | StepPattern:sp DSLASH RelativePathPattern:rpp
     [: RESULT = new AncestorPattern(sp, rpp); :];

StepPattern ::= NodeTestPattern:nt
   [:
     RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
   :]

   | NodeTestPattern:nt Predicates:pp
     [:
       RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
     :]

   | ProcessingInstructionPattern:pip
     [: RESULT = pip; :]

   | ProcessingInstructionPattern:pip Predicates:pp
     [: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :]

   | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
     [:
       RESULT = parser.createStepPattern(axis.intValue(), nt, null);
     :]

   | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
     [:
       RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
     :]

   | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
     [:
       RESULT = pip; // TODO: report error if axis is attribute
     :]

   | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
     Predicates:pp
     [:
       // TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
;
NodeTestPattern ::= NameTestPattern:nt
    {: RESULT = nt; :}
    | NODE
    {: RESULT = new Integer(NodeTest.ANODE); :}
    | TEXT
    {: RESULT = new Integer(NodeTest.TEXT); :}
    | COMMENT
    {: RESULT = new Integer(NodeTest.COMMENT); :}
    | PI
    {: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
    {: RESULT = null; :}
    | QName:qn
    {: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
    {: RESULT = new Integer(Axis.ATTRIBUTE); :}
    | CHILD DCOLON
    {: RESULT = new Integer(Axis.CHILD); :}
    | ATTRIBUTE DCOLON
    {: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
    {:
        Vector temp = new Vector();
        temp.addElement(p);
        RESULT = temp;
    :}
    | Predicate:p Predicates:pp
    {: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
    {:
        RESULT = new Predicate(e);
    :}
/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
        { : RESULT = ex; : };

OrExpr ::= AndExpr:ae
        { : RESULT = ae; : }
         | OrExpr:oe OR AndExpr:ae
        { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : };

AndExpr ::= EqualityExpr:e
        { : RESULT = e; : }
         | AndExpr:ae AND EqualityExpr:ee
        { : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : };

EqualityExpr ::= RelationalExpr:re
        { : RESULT = re; : }
         | EqualityExpr:ee EQ RelationalExpr:re
        { : RESULT = new EqualityExpr(Operators.EQ, ee, re); : };
         | EqualityExpr:ee NE RelationalExpr:re
        { : RESULT = new EqualityExpr(Operators.NE, ee, re); : };

RelationalExpr ::= AdditiveExpr:ae
        { : RESULT = ae; : }
         | RelationalExpr:re LT AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.LT, re, ae); : };
         | RelationalExpr:re GT AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.GT, re, ae); : };
         | RelationalExpr:re LE AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.LE, re, ae); : };
         | RelationalExpr:re GE AdditiveExpr:ae
        { : RESULT = new RelationalExpr(Operators.GE, re, ae); : };

AdditiveExpr ::= MultiplicativeExpr:me
        { : RESULT = me; : }
         | AdditiveExpr:ae PLUS MultiplicativeExpr:me
        { : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : };
         | AdditiveExpr:ae MINUS MultiplicativeExpr:me
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```java
{ : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : };

MultiplicativeExpr ::= UnaryExpr:ue
{ : RESULT = ue; : }

| MultiplicativeExpr:me MULT UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); : }

| MultiplicativeExpr:me DIV UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); : }

| MultiplicativeExpr:me MOD UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); : };

UnaryExpr ::= UnionExpr:ue
{ : RESULT = ue; : }

| MINUS UnaryExpr:ue
{ : RESULT = new UnaryOpExpr(ue); : };

UnionExpr ::= PathExpr:pe
{ : RESULT = pe; : }

| PathExpr:pe VBAR UnionExpr:rest
{ : RESULT = new UnionPathExpr(pe, rest); : };

PathExpr ::= LocationPath:lp
{ : RESULT = lp; : }

| FilterExpr:fexp
{ : RESULT = fexp; : }

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{ : RESULT = new FilterParentPath(fexp, rlp); : }

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{ :

// Expand '// into '/descendant-or-self::node()/ or
// into /descendant-or-self::*/'
//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
```
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
;
LocationPath ::= RelativeLocationPath:rlp
    {: RESULT = rlp; :}
| AbsoluteLocationPath:alp
    {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
    {: RESULT = step; :}
| RelativeLocationPath:rlp SLASH Step:step
    {:
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;        // Remove './' from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;        // Remove '/.' from the end
    }
    else {
        RESULT =
        new ParentLocationPath((RelativeLocationPath) rlp, step);
    }
    :}
| AbbreviatedRelativeLocationPath:arlp
    {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
    {: RESULT = new AbsoluteLocationPath(); :}
| SLASH RelativeLocationPath:rlp
    {: RESULT = new AbsoluteLocationPath(rlp); :}
| AbbreviatedAbsoluteLocationPath:aalp
    {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
    {:
    final Step right = (Step)step;
    final int axis = right.getAxis();
    final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress '/child:E' into 'descendant::E' - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
        } else {
            // Expand 'rlp/child::E' into 'rlp/descendant::E'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            RESULT = new ParentLocationPath(left, right);
        }
    } else {
        // Expand './/step' -> 'descendant-or-self::*/step'
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            Step left = new Step(Axis.DESCENDANTORSELF,
                DTM.ELEMENT_NODE, null);
            RESULT = new ParentLocationPath(left, right);
        } else {
            // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            Step mid = new Step(Axis.DESCENDANTORSELF,
                DTM.ELEMENT_NODE, null);
            ParentLocationPath ppl = new ParentLocationPath(mid, right);
            RESULT = new ParentLocationPath(left, ppl);
        }
    }
} else if ((axis == Axes.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {
        //
        // Expand '//' into '/descendant-or-self::node()/ or
        // into /descendant-or-self::*/
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        RESULT = new AbsoluteLocationPath(parser.insertStep(step,
            (RelativeLocationPath) rlp));
    :

    Step ::= NodeTest:ntest
        {
            if (ntest instanceof Step) {
                RESULT = (Step)ntest;
            }
            else {
                RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
            }
        :

    | NodeTest:ntest Predicates:pp
        {
            if (ntest instanceof Step) {
                Step step = (Step)ntest;
                step.addPredicates(pp);
                RESULT = (Step)ntest;
            }
            else {
                RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest), pp);
            }
        :

    | AxisSpecifier:axis NodeTest:ntest Predicates:pp
        { RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest), pp),
        }
pp);

| AxisSpecifier:axis NodeTest:ntest
| : RESULT = new Step(axis.intValue(),
|   parser.findNodeType(axis.intValue(), ntest),
|   null);
| }

| AbbreviatedStep:abbrev
| : RESULT = abbrev; :;

AxisSpecifier ::= AxisName:an DCOLON
| : RESULT = an; :}

| ATSIGN
| : RESULT = new Integer(Axis.ATTRIBUTE); :;

AxisName ::= ANCESTOR
| : RESULT = new Integer(Axis.ANCESTOR); :

| ANCESTORORSELF
| : RESULT = new Integer(Axis.ANCESTORORSELF); :

| ATTRIBUTE
| : RESULT = new Integer(Axis.ATTRIBUTE); :

| CHILD
| : RESULT = new Integer(Axis.CHILD); :

| DESCENDANT
| : RESULT = new Integer(Axis.DESCENDANT); :

| DESCENDANTORSELF
| : RESULT = new Integer(Axis.DESCENDANTORSELF); :

| FOLLOWING
| : RESULT = new Integer(Axis.FOLLOWING); :

| FOLLOWINGSIBLING
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); :

| NAMESPACE
| : RESULT = new Integer(Axis.NAMESPACE); :

| PARENT
| : RESULT = new Integer(Axis.PARENT); :}
AbbreviatedStep ::= DOT
  { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }  
  
| DDOT
{ RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : };

FilterExpr ::=  PrimaryExpr:primary
  { : RESULT = primary; : }  
  
| PrimaryExpr:primary Predicates:pp
{ RESULT = new FilterExpr(primary, pp); : };

PrimaryExpr ::= VariableReference:vr
  { : RESULT = vr; : }  
  
| LPAREN Expr:ex RPAREN
{ : RESULT = ex; : }  

| Literal:string
{ :  
  /*
   * If the string appears to have the syntax of a QName, store
   * namespace info in the literal expression. This is used for
   * element-available and function-available functions, among
   * others. Also, the default namespace must be ignored.
   */
   String namespace = null;
   final int index = string.lastIndexOf(':');
   if (index > 0) { 
     final String prefix = string.substring(0, index);
     namespace = parser._symbolTable.lookupNamespace(prefix);
   }
   RESULT = (namespace == null) ? new LiteralExpr(string)
     : new LiteralExpr(string, namespace);
  : }  
  
| INT:num
{ :
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
} else {
    if (num.doubleValue() == -0)
RESULT = new RealExpr(num.doubleValue());
else if (num.intValue() == 0)
RESULT = new IntExpr(num.intValue());
else if (num.doubleValue() == 0.0)
RESULT = new RealExpr(num.doubleValue());
else
RESULT = new IntExpr(num.intValue());
}

| REAL: num |
|:RESULT = new RealExpr(num.doubleValue()); :

| FunctionCall: fc |
| :RESULT = fc; : |

VariableReference ::= DOLLAR VariableName: varName
|
// An empty qname prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
| SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
RESULT = new VariableRef((Variable)node);
} else if (node instanceof Param) {
RESULT = new ParameterRef((Param)node);
} else {
RESULT = new UnresolvedRef(varName);
}
}

if (node == null) {
RESULT = new UnresolvedRef(varName);
}

FunctionCall ::= FunctionName: fname LPAREN RPAREN |
|:
if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
{:
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(PLATFORM_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
} else {
    RESULT = new FunctionCall(fname, argl);
}
);

NonemptyArgumentList ::= Argument:arg
    |
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
    :}
    | Argument:arg COMMA NonemptyArgumentList:argl
    
    |
    : argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
    |
    RESULT = fname;
    :};
VariableName ::= QName:vname
    {:
        RESULT = vname;
    :};

Argument ::= Expr:ex
    {:
        RESULT = ex;
    :};

NodeTest ::= NameTest:nt
    {:
        RESULT = nt;
    :}

| NODE
    {:
        RESULT = new Integer(NodeTest.ANODE); 
    :}

| TEXT
    {:
        RESULT = new Integer(NodeTest.TEXT); 
    :}

| COMMENT
    {:
        RESULT = new Integer(NodeTest.COMMENT); 
    :}

| PIPARAM LPAREN Literal:l RPAREN
    {
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
            new NameCall(name),
            new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

| PI
    {:
        RESULT = new Integer(NodeTest.PI); 
    :};

NameTest ::= STAR
    {:
        RESULT = null;
    :}

| QName:qn
    {:
        RESULT = qn;
    :};

QName ::= QNAME:qname
    {:
        RESULT = parser.getQNameIgnoreDefaultNs(qname); 
    :}

| DIV
    {:
        RESULT = parser.getQNameIgnoreDefaultNs("div"); 
    :}

| MOD
{ : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : }

| KEY |
| : RESULT = parser.getQNameIgnoreDefaultNs("key"); : |

| ANCESTOR |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| ANCESTORORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE |
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| DESCENDANT |
| : RESULT = parser.getQNameIgnoreDefaultNs("decendant"); : |

| DESCENDANTORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); : |

| FOLLOWING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following"); : |

| FOLLOWINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : |

| NAMESPACE |
| : RESULT = parser.getQNameIgnoreDefaultNs("namespace"); : |

| PARENT |
| : RESULT = parser.getQNameIgnoreDefaultNs("parent"); : |

| PRECEDING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding"); : |

| PRECEDINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); : |

| SELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("self"); : |

| ID |
| : RESULT = parser.getQNameIgnoreDefaultNs("id"); : |

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup

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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java

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* distributed under the License is distributed on an "AS IS" BASIS,
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/**
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%cunicode
%class XPathLexer
%yyeof
%
{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
'  || c == '');
    }

    /**
     * If symbol is not followed by '::' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;
        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // If end of buffer, can't disambiguate :(
        if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }

        // Return symbol if next token is '::' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
                yy_buffer[index] == '(') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }
}
/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1:  // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DSLSH:
            case sym.VBAR:
            case sym.PLUS:
            case sym.MINUS:
            case sym.EQ:
            case sym.NE:
            case sym.LT:
            case sym.LE:
            case sym.GT:
            case sym.GE:
                return newSymbol(sym.QNAME, yytext());
        }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
        case -1:  // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLSH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%eofval{
    return newSymbol(sym.EOF);
}%eofval

%yylexthrow{
    throw Exception
}
Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01FF\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0361\u0368\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DC\u03DE\u03EU\u03EE\u03E2-\u0403\u0404-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C6-\u04C8\u04CB-\u04CC\u04DD-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u0676\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A86\u0A88-\u0A91\u0A93-
\u0A98\u0A9A-\u0AA0\u0AA2-\u0AA3\u0AA5-\u0AB3\u0AB5-\u0AB6\u0AB7-\u0AB9\u0ABB-
\u0BB2\u0BB4-\u0BB6\u0BB8-\u0BB9\u0BBB-\u0BC4\u0BC6-\u0BC8\u0BD0-
\u0BD2\u0BD4-\u0BD6\u0BD8-\u0BD9\u0BDB-

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-
\u0A6E-\u0A70\u0A72\u0A74\u0A76-\u0A78\u0A80\u0A82-\u0A84\u0A86-\u0A88\u0A8A-
\u0A8C\u0A8E-\u0A90\u0A92\u0A94-\u0A96\u0A98-
\u0AA0\u0AA2\u0AA4-\u0AA6\u0AA8-\u0AAE\u0B00-\u0B02\u0B04-\u0B06\u0B08-
\u0B0A\u0B0C-\u0B0E\u0B10-\u0B12-\u0B14\u0B16-
\u0B18\u0B1A\u0B1C\u0B1E-\u0B20\u0B22\u0B24-
\u0B26\u0B28\u0B2A-\u0B2C\u0B2E-\u0B30-
\u0B32\u0B34\u0B36-\u0B38\u0B3A-
\u0B3C\u0B3E-\u0B40\u0B42\u0B44-
\u0B46\u0B48\u0B4A-\u0B50\u0B52-
\u0B54\u0B56-\u0B58\u0B5A-
\u0B5C\u0B5E-\u0B60\u0B62-\u0B64-
\u0B66\u0B68\u0B6A-\u0B6C\u0B6E-\u0B70-
\u0B72\u0B74\u0B76-\u0B78\u0B7A-
\u0B7C\u0B7E-\u0B80\u0B82-\u0B84-
\u0B86\u0B88\u0B8A-\u0B8C\u0B8E-
\u0B90\u0B92-\u0B94\u0B96-
\u0B98\u0B9A\u0B9C-\u0B9E-\u0B9F\u0BAA-
\u0BBA\u0BBD-\u0BDF\u0BFA-
\u0C00-\u0C02\u0C04-
\u0C06\u0C08-\u0C0A-
\u0C0C\u0C0E-\u0C10\u0C12-
\u0C14\u0C16-
\u0C18\u0C1A-\u0C1C-
\u0C1E\u0C20-
\u0C22\u0C24-
\u0C26\u0C28-
\u0C2A\u0C2C-
\u0C2E\u0C30-\u0C32-
\u0C34\u0C36-
\u0C38\u0C3A-
\u0C3C\u0C3E-
\u0C40\u0C42-
\u0C44\u0C46-
\u0C48\u0C4A-
\u0C4C\u0C4E-
\u0C50\u0C52-
\u0C54\u0C56-
\u0C58\u0C5A-
\u0C5C\u0C5E-
\u0C60\u0C62-
\u0C64\u0C66-
\u0C68\u0C6A-
\u0C6C\u0C6E-
\u0C70\u0C72-
\u0C74\u0C76-
\u0C78\u0C7A-
\u0C7C\u0C7E-
\u0C80\u0C82-
\u0C84\u0C86-
\u0C88\u0C8A-
\u0C8C\u0C8E-
\u0C90\u0C92-
\u0C94\u0C96-
\u0C98\u0C9A-
\u0C9C\u0C9E-
\u0CA0\u0CA2-
\u0CA4\u0CA6-
\u0CA8\u0CAA-
\u0CBB-
\u0CDE-
\u0CF2\u0CF4-
\u0CF6\u0CF8-
\u0CFA-\u00FF\u1100-
\u1102\u1104-
\u1106\u1108-
\u110A\u110C-
\u1110\u1112-
\u1114\u1116-
\u1118\u111A-
\u111C\u111E-

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09F0-
\u09F2\u09F4-\u09F6\u09F8-\u09F9\u09FA-\u09FB-
\u09FC\u09FD-\u09FE\u09FF-\u1100-\u1102]

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Extender=[u00B7u02D0u02D1u0387u0640u0E46u0EC6u3005u3031-u0305u309D-u309E\u30FC-u30FE]

NCName=(\{Letter\}|"_"|\{NCNameStartChar\})(\{NCNameChar\})*

NCNameChar=[\{Letter\}|\{Digit\}|".-"|\{CombiningChar\}|\{Extender\}|\{NCNameStartChar\}| \raisebox{-.5pt}{\color{red}•}|\[\{\text{Combining Mark}\} | \{\text{Extender}\} | \{\text{NCName Start Character}\} | \{\text{Letter}\} | \{\text{Digit}\} | \{\text{Combining Mark}\} | \{\text{Extender}\} | \{\text{NCName Start Character}\} | \{\text{Combining Mark}\}]

NCNameStartChar=[\{\text{Letter}\} | \{\text{Digit}\} | \{\text{Combing Mark}\} | \{\text{Extender}\} | \{\text{NCName Start Character}\} | \{\text{Letter}\} | \{\text{Digit}\} | \{\text{Combing Mark}\} | \{\text{Extender}\} | \{\text{NCName Start Character}\} | \{\text{Letter}\} | \{\text{Digit}\} | \{\text{Combing Mark}\} | \{\text{Extender}\} | \{\text{NCName Start Character}\} | \{\text{Letter}\} | \{\text{Digit}\} | \{\text{Combing Mark}\} | \{\text{Extender}\} | \{\text{NCName Start Character}\} | \{\text{Letter}\} | \{\text{Digit}\} | \{\text{Combing Mark}\} | \{\text{Extender}\} | \{\text{NCName Start Character}\}]

HighSurrogate=[uD800-uDBFF]
LowSurrogate=[uDC00-uDFFF]

%%

"\*" { return disambiguateStar(); }
"/" { return newSymbol(sym.SLASH); }
"\+" { return newSymbol(sym.PLUS); }
"-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
".." { return newSymbol(sym.DDOT); }
"\|" { return newSymbol(sym.VBAR); }
"\$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLASH); }
"\=" { return newSymbol(sym.EQ); }
"\!=" { return newSymbol(sym.NE); }
"\<" { return newSymbol(sym.LT); }
"\>" { return newSymbol(sym.GT); }
"\<=" { return newSymbol(sym.LE); }
"\=>" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[ \n\v\u]+"(" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[ \n\v\u]+"(" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[ \n\v\u]+"(" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }

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package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */

public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 */

public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */

public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */

public static final String LANGUAGE = "Java";

/**
 * Major version number.
 */
* Version number. This changes only when there is a
  * significant, externally apparent enhancement from
  * the previous release. 'n' represents the n'th
  * version.
  *
  * Clients should carefully consider the implications
  * of new versions as external interfaces and behaviour
  * may have changed.
  */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
public static final int DEVELOPMENT = 0;

/**
 * Version String like "<B>Xalan</B> <B>Language</B><B>
 * v.r[.dd] <B>D</B><B>nn</B>"
 * <P> Semantics of the version string are identical to the Xerces project.</P>
 */
 public static final String S_VERSION = PRODUCT + "" + LANGUAGE + ""
            + VERSION + "" + RELEASE + "".
            +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
            : (""+MAINTENANCE));
}
No license file was found, but licenses were detected in source scan.

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 * limitations under the License.
 */

// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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

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* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xanl/xtlc/compilierta util/NodeType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xanl/xtlc/compilert CURRENTCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xanl/xtlc/transform HandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xtlc/compilert/TransformerHandlerIM pl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xtlc/compilert/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xtlc/compilert/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xanl/xtlc/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
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jar/org/apache/xalan/xslt/compiler/RoundCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/ElemApplyTemplates.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/StylesheetHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/sax2dtm/SAX2RTFDTM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/trace/PrintTraceListener.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/SerializationHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/trace/TracerEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/FloorCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/FastStringBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM2.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/CustomStringPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/dom/DOMWSFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/ExpressionContext.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FunctionDef1Arg.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/OneStepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/ValueOf.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorResources_sv.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/res/XMLErrorResources_pl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorResources.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncTranslate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/ValueOf.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/runtime/Operators.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/ParentLocationPath.java
jar/org/apache/xml/serializer/utils/XML11Char.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Div.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerFactory.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorPreserveSpace.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_hu.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Compiler.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_tr.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemChoose.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SymbolTable.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMsg.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemParam.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/AdaptiveResultTreeImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/XSLTCDTMManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/ExtendedSAX.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IdKeyPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NamedMethodGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SimpleResultTreeImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/patterns/FunctionPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/serialize/SerializerUtils.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerUtils.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ThreadControllerWrapper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMStringPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMTreeWalker.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLCharacterRecognizer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/WrongParserException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/operations/String.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/patterns/NodeTestFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/patterns/NodeTest.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/patterns/FunctionPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/IdKeyPattern java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/NamedMethodGenerator java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ResultTreeType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/jaxp/JAXPPrefixResolver.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerUtils.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/WrongParserException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerUtils.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IdKeyPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NamedMethodGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ResultTreeType.java
jar/org/apache/xalan/xslt/runtime/AttributeList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMAxisIterNodeList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Number.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpMapVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/StringValueHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/operations/Operation.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/functions/FuncString.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemUse.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMManagerDefault.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/Extensions.java
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1.876 go-restful v2.15.0+incompatible

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* /opt/ws_local/PERMITS_SQL/1050289327_1591719213.08/0/typetools-0-6-2-sources-jar/net/jodah/typetools/TypeResolver.java

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/unsafe/MpscLinkedQueue.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/atomic/SpscExactAtomicArrayQueue.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/atomic/SpscAtomicArrayQueue.java
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 */
/**
 * This plugin class provides 2 ways to customize [@link Scheduler] functionality
 * 1. You may redefine entire schedulers, if you so choose. To do so, override
 * the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an [@link Action0], before it is handed off to a Scheduler. The system-supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler, Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
 *
 * Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
 * <p>
 * See [@link RxJavaPlugins] or the RxJava GitHub Wiki for information on configuring plugins:
 */

Found in path(s):
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/plugins/RxJavaSchedulersHook.java
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  jar/rx/internal/operators/OnSubscribeToMultimap.java

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* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/ConcurrentCircularArrayQueue.java
*/

Found in path(s):
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-
  jar/rx/internal/util/unsafe/ConcurrentCircularArrayQueue.java

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  */

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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/plugins/RxJavaSingleExecutionHook.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/EmptyObservableHolder.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleToObservable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleLiftObservableOperator.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/ObserverSubscriber.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/subscriptions/Unsubscribed.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOnErrorReturn.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/observables/package-info.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeCreate.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/schedulers/SchedulePeriodicHelper.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleTakeUntilCompletable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/exceptions/AssemblyStackTraceException.java
* /opt/cola/permits/1145449550_1616155815.36/0/rx/BackpressureOverflow.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleTimeout.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/Emitter.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/subjects/package-info.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/ActionNotificationObserver.java

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  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/ExceptionsUtils.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeReduceSeed.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribePublishMulticast.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOperatorZip.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/SuppressAnimalSniffer.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/schedulers/SchedulerLifecycle.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeTakeLastOne.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeReduce.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/DeferredScalarSubscriber.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeConcatMap.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeCollect.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOnSubscribeUsing.java
  */opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeFromCallable.java

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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeFlatMapSingle.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/observables/AsyncOnSubscribe.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/BlockingUtils.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/SingleSubscriber.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/SingleEmitter.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools
as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735).
RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an
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jar/rx/subscriptions/RefCountSubscription.java
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
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The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```
$ curl \
--header "X-Vault-Token: ..." \
http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```
```json
{
"data": {
"expiration_time": "2017-11-14T16:34:36.546753-05:00",
"features": [
"UI",
"HSM",
"...
```
## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` `(string: <required>)` - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```
$ curl \
  --header "X-Vault-Token: ..." \
  --request PUT \
  --data @payload.json \
  http://127.0.0.1:8200/v1/sys/license
```

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mgo - MongoDB driver for Go

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<button type="submit" class="button is-primary" data-test-save-button>Save</button>
</div>
</div>
</section>
{else}
<section class="box is-sideless is-fullwidth">
<span class="title is-5">Details</span>
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<form {{action "saveModel" text on="submit"}}>
  <div class="field">
    <label for="license-id" class="is-label">License</label>
    <div class="control">
      {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-input"}}
    </div>
  </div>
  <div class="field is-grouped">
    <div class="control">
      <button type="submit" class="button is-primary" data-test-save-button>Save</button>
    </div>
    <div class="control">
      <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
    </div>
  </div>
</form>
{else}
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  {{info-table-row label="License ID" value=licenseId}}
  {{#info-table-row label="Valid from" value=startTime}}
    {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM DD, YYYY hh:mm:ss A'}}
  {{/info-table-row}}
</div>
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  <div class="control">
    <button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new license</button>
  </div>
</div>
{{/if}}
</section>
{{/if}}
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
<span class="title is-5">Features</span>
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  {{#each featuresInfo as |info|}}
    {{#info-table-row label=info.name value=(if info.active "Active" "Not Active") data-test-feature-row="data-test-feature-row"}}
</div>
</div>
</section>
{else}
</section>
{{/if}}
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package github

import (  
    "context"  
    "fmt"  
)

// LicensesService handles communication with the license related methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
// type LicensesService service

type RepositoryLicense struct {  
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`

    SHA  *string `json:"sha,omitempty"`
    Size  *int `json:"size,omitempty"`
    URL  *string `json:"url,omitempty"`
    HTMLURL  *string `json:"html_url,omitempty"`
    GitURL  *string `json:"git_url,omitempty"`
}
func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key    *string `json:"key,omitempty"`
    Name   *string `json:"name,omitempty"`
    URL    *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    *[]string `json:"permissions,omitempty"`
    Conditions     *[]string `json:"conditions,omitempty"`
    Limitations    *[]string `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses []License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
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}

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1.903 zipkin 2.21.1

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2
Bnd-LastModified: 1586931162540
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin (Parent)
Bundle-DocURL: http://zipkin.io/
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Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Core Library
Bundle-SymbolicName: io.zipkin.zipkin2.zipkin
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.21.1
Export-Package: zipkin2;version="2.21.1";uses:="zipkin2.codec.zipkin2.internal",zipkin2.codec;version="2.21.1";uses:="zipkin2.zipkin2.internal",zipkin2.storage;version="2.21.1";uses:="zipkin2.zipkin2.internal",zipkin2.v1;version="2.21.1";uses:="zipkin2.zipkin2.internal",zipkin2.internal;zipkin2internal=true;mandatory:="zipkin2internal;version="2.21.1";uses:="zipkin2.zipkin2.storage.zipkin2.v1"
Import-Package: zipkin2;version="[2.21,3)",zipkin2.codec;version="[2.21,3)",zipkin2.internal;version="[2.21,3)";zipkin2internal=true,zipkin2.storage;version="[2.21,3)",zipkin2.v1;version="[2.21,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695204_1601878596.36/0/zipkin-2-21-1-jar/META-INF/MANIFEST.MF

1.904 sensible-utils 0.0.12
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Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>
Source: https://alioth.debian.org/projects/collab-maint/sensible-utils.git

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1.905 ozzo-validation 3.6.0+incompatible

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1.906 spring-expression 5.2.7.RELEASE

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1.909 kingpin v2.2.6
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.912 libgcrypt 1.8.4 5

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More credits
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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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1.914 cdebconf 0.249

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1.916 jackson-dataformat-yaml 2.11.0

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1.923 go-ipam 1.6.2

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.931 x-is-array 0.1.0
1.931.1 Available under license:

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1.932 regenerator-runtime 0.13.7

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1.934 hibernate 5.4.17.Final

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DomainDataRegionTemplate( public DomainDataStorageAccess getCacheStorageAccess() |

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1.935 readline 8.0.4
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1.936 angular-forms 9.0.7
1.936.1 Available under license :
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 * found in the LICENSE file at https://angular.io/license
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_no_validate_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_control.js
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```javascript
/**
 * @description
 * Base class for control directives.
 *
 * This class is only used internally in the
 * 'ReactiveFormsModule' and the 'FormsModule'.
 *
 * @publicApi
 */
    var AbstractControlDirective
```
Reports error data for the control with the given path.

* @param errorCode The code of the error to returned.
* @param path A list of control names that calculated for the control. If the control is not present, null is returned.
* @returns whether the control is untouched, meaning that the user has not yet triggered
* a 'blur' event on it. If the control is not present, null is returned.
* @returns whether the control is touched, meaning that the user has triggered
* the value in the UI. If the control is not present, null is returned.
* @returns whether the control is dirty, meaning that the user has changed
* the value in the UI. If the control is not present, null is returned.
* @returns whether the control is pristine, meaning that the user has not yet changed
* the value in the UI. If the control is not present, null is returned.
* @returns whether the control with the given path has the error specified.
* @description
* Returns a multicasting observable of value changes for the control that emits every
time the value of the control changes in the UI or programmatically.
* @description
* Returns the validation status of the control. Possible values include: 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
* @description
* Returns an array that represents the path from the top-level form to this control.
* Each index is the string name of the control on that level.
* @description
* Resets the control with the provided value if the control is present.
* @description
* Reports whether the control with the given path has the error specified.
* @param errorCode The code of the error to check
* @param path A list of control names that designates how to move from the current control
* to the control that should be queried for errors.
* @usageNotes
* For example, for the following `FormGroup`:

const form = new FormGroup({
  street: new FormControl() });

form.valueChanges.subscribe(value => {
  if (value.address.street === 'address') {
    alert('Street changed');
  }
});

* The path to the 'street' control from the root form would be 'address' -> 'street'.
* It can be provided to this method in one of two formats:
  * An array of string control names, e.g. ['address', 'street']
  * A period-delimited list of control names in one string, e.g. `address.street`
* @returns whether the given error is present in the control at the given path.
* @returns whether the control is present, false is returned.
* @returns whether the control hasError(errorCode, path) : false
* @description
* Reports error data for the control with the given path.
check\n
* @param path A list of control names that designates how to move from the current control\n
*
to the control that should be queried for errors.\n
*\n
* @usageNotes\n
* For example, for the
following `FormGroup`:\n
*\n
* ```\n
* form = new FormGroup({\n
* address: new
FormGroup({ street: new FormControl() })\n
* });\n
* ```\n
*\n
* The path to the 'street' control
from the root form would be 'address' -> 'street'.\n
*\n
* It can be provided to this method in one of two
formats:\n
*\n
* 1. An array of string control names, e.g. `['address', 'street']`\n
* 1. A perioddelimited list of control names in one string, e.g. `'address.street'`\n
*\n
* @returns error data for that
particular error. If the control or error is not present,\n
* null is returned.\n
*/\n
AbstractControlDirective.prototype.getError = function (errorCode, path) {\n
return this.control ?
this.control.getError(errorCode, path) : null;\n
};\n
return AbstractControlDirective;\n }());\n\n /**\n
* @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n /**\n *
@description\n * A base class for directives that contain multiple registered instances of `NgControl`.\n * Only
used by the forms module.\n *\n * @publicApi\n */\n var ControlContainer = /** @class */ (function
(_super) {\n
__extends(ControlContainer, _super);\n
function ControlContainer() {\n
return _super
!== null && _super.apply(this, arguments) || this;\n
}\n
Object.defineProperty(ControlContainer.prototype,
\"formDirective\", {\n
/**\n
* @description\n
* The top-level form directive for the control.\n
*/\n
get: function () { return null; },\n
enumerable: true,\n
configurable: true\n
});\n
Object.defineProperty(ControlContainer.prototype, \"path\", {\n
/**\n
* @description\n
*
The path to this group.\n
*/\n
get: function () { return null; },\n
enumerable: true,\n
configurable: true\n
});\n
return ControlContainer;\n }(AbstractControlDirective));\n\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n function
unimplemented() {\n
throw new Error('unimplemented');\n }\n /**\n * @description\n * A base class
that all control `FormControl`-based directives extend. It binds a `FormControl`\n * object to a DOM element.\n
*\n * @publicApi\n */\n var NgControl = /** @class */ (function (_super) {\n
__extends(NgControl,
_super);\n
function NgControl() {\n
var _this = _super !== null && _super.apply(this, arguments) ||
this;\n
/**\n
* @description\n
* The parent form for the control.\n
*\n
*
@internal\n
*/\n
_this._parent = null;\n
/**\n
* @description\n
* The name for
the control\n
*/\n
_this.name = null;\n
/**\n
* @description\n
* The value
accessor for the control\n
*/\n
_this.valueAccessor = null;\n
/**\n
* @description\n
* The uncomposed array of synchronous validators for the control\n
*\n
* @internal\n
*/\n
_this._rawValidators = [];\n
/**\n
* @description\n
* The uncomposed array of async
validators for the control\n
*\n
* @internal\n
*/\n
_this._rawAsyncValidators = [];\n
return _this;\n
}\n
Object.defineProperty(NgControl.prototype, \"validator\", {\n
/**\n
*
@description\n
* The registered synchronous validator function for the control\n
*\n
*
@throws An exception that this method is not implemented\n
*/\n
get: function () { return
unimplemented(); },\n
enumerable: true,\n
configurable: true\n
});\n
Object.defineProperty(NgControl.prototype, \"asyncValidator\", {\n
/**\n
* @description\n
*
The registered async validator function for the control\n
*\n
* @throws An exception that this
method is not implemented\n
*/\n
get: function () { return unimplemented(); },\n
enumerable:
true,\n
configurable: true\n
});\n
return NgControl;\n }(AbstractControlDirective));\n\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
AbstractControlStatus = /** @class */ (function () {\n
function AbstractControlStatus(cd) {\n
this._cd =
cd;\n
}\n
Object.defineProperty(AbstractControlStatus.prototype, \"ngClassUntouched\", {\n
get:
function () { return this._cd.control ? this._cd.control.untouched : false; },\n
enumerable: true,\n
configurable: true\n
});\n
Object.defineProperty(AbstractControlStatus.prototype, \"ngClassTouched\", {\n

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get: function () { return this._cd.control ? this._cd.control.touched : false; }, enumerable: true,
configurable: true
};

Object.defineProperty(AbstractControlStatus.prototype, "ngClassPristine", {
get: function () { return this._cd.control ? this._cd.control.pristine : false; }, enumerable: true,
configurable: true
});

Object.defineProperty(AbstractControlStatus.prototype, "ngClassDirty", {
get: function () { return this._cd.control ? this._cd.control.dirty : false; }, enumerable: true,
configurable: true
});

Object.defineProperty(AbstractControlStatus.prototype, "ngClassValid", {
get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true
});

Object.defineProperty(AbstractControlStatus.prototype, "ngClassInvalid", {
get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true
});

Object.defineProperty(AbstractControlStatus.prototype, "ngClassPending", {
get: function () { return this._cd.control ? this._cd.control.pending : false; }, enumerable: true,
configurable: true
});

return AbstractControlStatus;
}());

var ngControlStatusHost = {

'class.ng-untouched': 'ngClassUntouched',

'class.ng-touched': 'ngClassTouched',

'class.ng-pristine': 'ngClassPristine',

'class.ng-dirty': 'ngClassDirty',

'class.ng-valid': 'ngClassValid',

'class.ng-invalid': 'ngClassInvalid',

'class.ng-pending': 'ngClassPending',

};

/**
 * @description
 *
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status.
 *
 * *ng-untouched
 * ng-touched
 * ng-pristine
 * ng-dirty
 * ng-untouched
 * ng-touched
 * ng-pristine
 * ng-invalid
 * ng-pending
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */

var NgControlStatus = /** @class */ (function (_super) {
    __extends(NgControlStatus, _super);
    function NgControlStatus(cd) {
        return _super.call(this, cd) || this;
    }

    NgControlStatus = __decorate([
        core.Directive({
            selector: '
                [formControlName],[ngModel],[formControl]
            ',
            host: ngControlStatusHost
        }),
        __param(0, core.Self()),

        __metadata("design:paramtypes", [NgControl])
    ], NgControlStatus);

    return NgControlStatus;
};

/**
 * @description
 * Directive automatically applied to Angular form
 * groups that sets CSS classes based on
 * control status.
 *
 * *ng-untouched
 * ng-touched
 * ng-pristine
 * ng-valid
 * ng-invalid
 * ng-pending
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */

var NgControlStatusGroup = /** @class */ (function (_super) {
    __extends(NgControlStatusGroup, _super);
    function NgControlStatusGroup(cd) {
        return _super.call(this, cd) || this;
    }

    NgControlStatusGroup = __decorate([  
        core.Directive({
            selector: '
                [formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]
            ',
            host: ngControlStatusHost
        }),
        __param(0, core.Self()),

        __metadata("design:paramtypes", [ControlContainer])
    ], NgControlStatusGroup);

    return NgControlStatusGroup;
};

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be found
 * in the LICENSE file at https://angular.io/license
 */

function isEmptyInputValue(value) {
    // we don't check for string here so it also works with arrays
    return value == null || value.length === 0;
}

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with
 * `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @usageNotes
 *
 * ### Providing a custom validator
 *
 * The following example registers a custom validator directive. Adding the
 * validator to the existing collection of validators requires the `multi: true` option.
 *
 * ```typescript
 * @Directive({
 *   selector: '[customValidator]',
 *   providers: [{provide: NG_VALIDATORS,
 *     useExisting: CustomValidatorDirective, multi: true}]
 * })
 * class CustomValidatorDirective implements
 * CustomValidatorDirective {
 *   validate(control: AbstractControl): ValidationErrors | null {
 *       return { 'custom': true };
 *   }
 * }
 * ```
 *
 * @publicApi
 */

var NG_VALIDATORS = new core.InjectionToken('NgValidators');

/**
 * @description
 * An `InjectionToken` for registering additional asynchronous validators used with
 * `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */

var NG_ASYNC_VALIDATORS = new core.InjectionToken('NgAsyncValidators');
A regular expression that matches valid e-mail addresses. At a high level, this regex matches e-mail addresses of the format `local-part@tld`, where:

- `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
- `tld` consists of one or more `labels` separated by periods (`.`).

For example `localhost` or `foo.com`. A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)) or `- A label cannot begin or end with a period (`.`).

- `local-part` cannot be longer than 64 characters.
- `tld` consists of one or more `labels` separated by periods (`.`).

For example `localhost` or `foo.com`. A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)) or `- A label cannot begin or end with a period (`.`).

- The whole address cannot be longer than 254 characters.

### Validate against a maximum of 15

```typescript
* const control = new FormControl(15, Validators.min(16));
* console.log(control.errors); // { min: [min: 3, actual: 2] }
* `@returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.

**@see `updateValueAndValidity()`**
* `@returns A validator function that returns an error map with the `max` property if the validation check fails, otherwise `null`.

**@see `updateValueAndValidity()`**

**@usageNotes**

### Validate against a minimum of 3

```typescript
* const control = new FormControl(2, Validators.min(3));
* console.log(control.errors); // { min: [min: 3, actual: 2] }
* `@returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.

**@see `updateValueAndValidity()`**
* `@returns A validator function that returns an error map with the `max` property if the validation check fails, otherwise `null`.

**@see `updateValueAndValidity()`**

**@usageNotes**

### Validate that the field is non-empty
const control = new FormControl('', Validators.required);

* @returns An error map that contains the `required` property set to `true` if the validation check fails, otherwise null.

* @see `updateValueAndValidity()`

* @returns A validator function that returns an error map with the `required` property if the validation check fails, otherwise null.
* @see `updateValueAndValidity()`

* @returns A validator function that returns an error map with the `minlength` if the validation check fails, otherwise null.
* @see `updateValueAndValidity()`

* @returns A validator function that returns an error map with the `maxlength` property if the validation check fails, otherwise null.
* @see `updateValueAndValidity()`

* @returns An error map with the `email` property if the validation check fails, otherwise null.
* @see `updateValueAndValidity()`

* @returns An error map with the `required` property if the validation check fails, otherwise null.
* @see `updateValueAndValidity()`

* @returns An error map with the `required` property set to `true` if the validation check fails, otherwise null.

* Tests the value using a regular expression

* pattern suitable for common use cases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).

* The differences from the WHATWG version include:
  * Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
  * Disallow `local-part` to be longer than 64 characters.
  * Disallow the whole address to be longer than 254 characters.

* If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

* Tests the value using a regular expression

* pattern suitable for common use cases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).

* The differences from the WHATWG version include:
  * Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
  * Disallow `local-part` to be longer than 64 characters.
  * Disallow the whole address to be longer than 254 characters.

* If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.
RadioControlRegistry.prototype.select = function (accessor) {
    var _this = this;
    this._accessors.forEach(function (c) {
        if (_this._isSameGroup(c, accessor) && c[1] !== accessor) {
            c[1].fireUncheck(accessor.value);
        }
    });
}

RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {
    if (!controlPair[0].control)
        return false;
    return controlPair[1]._parent === accessor._control._parent &&
        controlPair[1].name === accessor.name;
};

RadioControlRegistry = __decorate([core.Injectable()], RadioControlRegistry);

RadioControlValueAccessor = /** @class */ (function () {
    function RadioControlValueAccessor(_renderer, _elementRef, _registry, _injector) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._registry = _registry;
        this._injector = _injector;
        this.onChange = function () { };
        this.onTouched = function () { };
    }

    RadioControlValueAccessor.prototype.ngOnInit = function () {
        this._control = this._injector.get(NgControl);
        this._checkName();
        this._registry.add(this._control, this);
    };

    RadioControlValueAccessor.prototype.ngOnDestroy = function () {
        this._registry.remove(this);
    };

    RadioControlValueAccessor.prototype.writeValue = function (value) {
        this._state = value === this.value;
        this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
    };

    RadioControlValueAccessor.prototype.registerOnChange = function (fn) {
        var _this = this;
        this._fn = fn;
        this.onChange = function () {
            fn(_this.value);
            _this._registry.select(_this);
        };
    };

    RadioControlValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };

    RadioControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };

    RadioControlValueAccessor.prototype._checkName = function () {
        if (this.name && this.formControlName && this.name !== this.formControlName) {
            this._throwNameError();
        }
        if (!this.name && this.formControlName)
            this.name = this.formControlName;
    };

    RadioControlValueAccessor.prototype._throwNameError = function () {
        throw new Error("If you define both a name and a formControlName attribute on your radio button, their values must match. Ex: <input type="radio" formControlName="food" name="food"/>");
    };

    __decorate([core.Injectable()], RadioControlValueAccessor);

    return RadioControlValueAccessor;
}());
RadioControlValueAccessor.prototype, "value", void 0);__decorate([core.Input(),__metadata("design:type", Object)], RadioControlValueAccessor.prototype, "value", void 0);RadioControlValueAccessor = __decorate([core.Directive({
    selector: 'input[type=radio][formControlName],input[type=radio][formControl],[input[type=radio][ngModel],
host: { (change)': 'onChange($event.target.value)', '(blur)': 'onTouched() ',
    providers: [RANGE_VALUE_ACCESSOR]
}),__metadata("design:paramtypes", [core.Renderer2, core.ElementRef])], RadioControlValueAccessor);
    return RadioControlValueAccessor;

    /**
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     * Reserved
     */
    var RANGE_VALUE_ACCESSOR = {
        provide: NG_VALUE_ACCESSOR,
        useExisting: core.forwardRef(function () { return RangeValueAccessor; }),
        multi: true
    };

    /**
     * @description
     * The `ControlValueAccessor` for writing a range value and
     * listening to range input changes.
     * This class should be used to pass range inputs to reactive
     * forms, reactive forms and forms.
     *
     * @usageNotes
     *
     * ### Using a range
     * ```
     * <input
     * type="range"
     * 
     * <!-- transition-between="\n
     * function
     * RangeValueAccessor.writeValue(value)
     * function
     * RangeValueAccessor.registerOnChange(fn)
     * function
     * RangeValueAccessor.registerOnTouched(fn)
     * function
     * RangeValueAccessor.setDisabledState(isDisabled)

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@description

The `ControlValueAccessor` for writing select control values and listening to select control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

### Using select controls in a template-driven form

To use a select in a template-driven form, simply add an `ngModel` and a `name` attribute to the main `<select>` tag.

```typescript
<select [compareWith]="compareFn" [formControl]="selectedCountriesControl">
    <option *ngFor="let country of countries" [ngValue]="country">
        {{country.name}}
    </option>
</select>
```

```
compareFn(c1: Country, c2: Country): boolean {
    return c1 && c2 ? c1.id === c2.id : c1 === c2;
}
```

* **Note:** We listen to the 'change' event because 'input' events aren't fired for selects in Firefox and IE.


@ngModule
ReactiveFormsModule
@ngModule
FormsModule
@publicApi
var SelectControlValueAccessor = /** @class */ (function () {
    function SelectControlValueAccessor(_renderer, _elementRef) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        /** @internal */
        this._optionMap = new Map();
        /** @internal */
        this._idCounter = 0;

        /**
         * @description
         * The registered callback function called when a change event occurs on the input element.
         */
        this.onChange = function (_) { };
        /**
         * The registered callback function called when a blur event occurs on the input element.
         */
        this.onTouched = function () { };
        this._compareWith = core.looseIdentical;
    }

    Object.defineProperty(SelectControlValueAccessor.prototype, "compareWith", {
        /**
         * @description
         * Tracks the option comparison algorithm for tracking identities when checking for changes.
         */
        set: function (fn) {
            if (typeof fn !== 'function') {
                throw new Error("compareWith must be a function, but received " + JSON.stringify(fn));
            }
            this._compareWith = fn;
        },
        enumerable: true,
        configurable: true
    });

    /**
     * Sets the "value" property on the input element. The "selectedIndex" property is also set if an ID is provided on the option element.
     *
     * @param value The checked value
     */
    SelectControlValueAccessor.prototype.writeValue = function (value) {
        this.value = value;
        var id = this._getOptionId(value);
        if (id == null) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
        }
        var valueString = _buildValueString(id, value);
        this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
    };

    /**
     * Registers a function called when the control value changes.
     *
     * @param fn The callback function
     */
    SelectControlValueAccessor.prototype.registerOnChange = function (fn) {
        var this_val = this;
        this.onChange = function (_) {
            this_val = this;
        };
        this._renderer.setProperties(this._elementRef.nativeElement, {'selectedIndex': -1}, valueString);
    };

    /**
     * Registers a function called when the control is touched.
     *
     * @param fn The callback function
     */
    SelectControlValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };

    /**
     * Sets the "disabled" property on the select input element.
     *
     * @param isDisabled The disabled
     */
    SelectControlValueAccessor.prototype.registerOnDisabled = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };

    return SelectControlValueAccessor;
})();

```
value
    *\n    SelectControlValueAccessor.prototype.setDisabledState = function (isDisabled) {\n        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n    };
    /** @internal */\n    SelectControlValueAccessor.prototype._registerOption = function () {\n        return (this._idCounter++).toString();\n    };
    /** @internal */\n    SelectControlValueAccessor.prototype._getOptionId = function (value) {\n        var id = _extractId(value);\n        return this._optionMap.has(id) ? this._optionMap.get(id) : value;\n    };
    __decorate([\n        core.Input(),\n        __metadata("design:type", Function),\n        __metadata("design:paramtypes", [Function])\n    ], SelectControlValueAccessor.prototype, "compareWith", null);
    SelectControlValueAccessor = __decorate([\n        core.Directive({ selector: 'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]'}),\n        host: { '(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()' },\n        providers: [\n            SELECT_VALUE_ACCESSOR\n        ],\n        __metadata("design:type", [core.Renderer2,\n            core.ElementRef]\n        ], SelectControlValueAccessor.prototype, 'constructor', (SelectControlValueAccessor, _element, _renderer) => {\n            this._element = _element;
            this._renderer = _renderer;
            if (this._select) this.id = this._select._registerOption();\n        });
        Object.defineProperty(NgSelectOption.prototype, "ngValue", {\n            /**\n             * @description
             * Tracks the value bound to the option element. Unlike the value binding,\n             * ngValue supports binding to objects.\n             * For objects, use the 'ngValue' input binding.\n             */\n            set: function (value) {\n                if (this._select == null) return;
                this._select._optionMap.set(this.id, value);
                this._setElementValue(_buildValueString(this.id, value));\n                this._select.writeValue(this._select.value);\n            },\n            enumerable: true,
            configurable: true\n        });\n        Object.defineProperty(NgSelectOption.prototype, "value", {\n            /**\n             * Tracks simple string values bound to the option element.\n             * For objects, use the 'ngValue' input binding.\n             */\n            set: function (value) {\n                this._setElementValue(_buildValueString(this.id, value));\n                this._select.writeValue(this._select.value);\n            },\n            enumerable: true,
            configurable: true\n        });\n        Object.defineProperty(NgSelectOption.prototype, "ngValue", {\n            /**\n             * Tracks the value bound to the option element. Unlike the value binding,\n             * ngValue supports binding to objects.\n             * For objects, use the 'ngValue' input binding.\n             */\n            set: function (value) {\n                if (this._select == null) return;
                this._select._optionMap.set(this.id, value);\n                this._setElementValue(_buildValueString(this.id, value));\n                this._select.writeValue(this._select.value);\n            },\n            enumerable: true,
            configurable: true\n        });\n        NgSelectOption.prototype.ngOnDestroy = function () {\n            if (this._select) {\n                this._select._optionMap.delete(this.id);
                this._select.writeValue(this._select.value);\n            }\n        }\n    }(),\n    NgSelectOption = NgSelectOption;\n*/\n
/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @see `SelectControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule
 * @publicApi
 */
var NgSelectOption = /** @class */ (function () {\n    function NgSelectOption(_element, _renderer, _select) {\n        this._element = _element;
        this._renderer = _renderer;
        this._select = _select;
        if (this._select) this.id = this._select._registerOption();\n    }\n    Object.defineProperty(NgSelectOption.prototype, "ngValue", {\n        /**\n         * @description
         * Tracks the value bound to the option element. Unlike the value binding,\n         * ngValue supports binding to objects.\n         * For objects, use the 'ngValue' input binding.\n         */\n        set: function (value) {\n            if (this._select == null) return;
            this._select._optionMap.set(this.id, value);
            this._setElementValue(_buildValueString(this.id, value));\n            this._select.writeValue(this._select.value);\n        },\n        enumerable: true,
        configurable: true\n    });\n    Object.defineProperty(NgSelectOption.prototype, "value", {\n        /**\n         * Tracks simple string values bound to the option element.\n         * For objects, use the 'ngValue' input binding.\n         */\n        set: function (value) {\n            this._setElementValue(_buildValueString(this.id, value));\n            this._select.writeValue(this._select.value);\n        },\n        enumerable: true,
        configurable: true\n    });\n    /**\n     * @description
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */\n    NgSelectOption.prototype.ngOnDestroy = function () {\n        if (this._select) {\n            this._select._optionMap.delete(this.id);
            this._select.writeValue(this._select.value);\n        }\n    }\n    __decorate([\n        core.Input('ngValue'),\n        __metadata("design:type", Object),\n        __metadata("design:paramtypes", [Object])\n    ], NgSelectOption.prototype, "ngValue", null);\n    __decorate([\n        core.Input('value'),\n        __metadata("design:type", Object),\n        __metadata("design:paramtypes", [Object])\n    ], NgSelectOption.prototype, "value", null);\n    NgSelectOption = NgSelectOption;\n}();

/**
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 * found in the LICENSE file at https://angular.io/license
 */
### Customizing option selection

To customize the default option comparison algorithm, `<select>` supports the `compareWith` attribute. Use the following example to show how to use a multi-select control with a reactive form:

```html
<select multiple name="countries" [formControl]="countryControl">
  <option *ngFor="let country of countries" [ngValue]="country">
    {{ country.name }}
  </option>
</select>
```

### Using a multi-select control

The following example shows you how to use a multi-select control with a reactive form:

```ts
const countryControl = new FormControl();
```
callback function */
SelectMultipleControlValueAccessor.prototype.registerOnTouched = function (fn) {
    this.onTouched = fn; }
/**
 * Sets the \"disabled\" property on the select input element.
 */
@param isDisabled The disabled value
 */
SelectMultipleControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, \'disabled\', isDisabled);
};
/** @internal */
SelectMultipleControlValueAccessor.prototype._registerOption = function (value) {
    var id = (this._idCounter++).toString();
    this._optionMap.set(value, id);
    return id;
}
/** @internal */
SelectMultipleControlValueAccessor.prototype._getOptionId = function (value) {
    var e_1_1, _a;
    try {
        for (var _b = __values(Array.from(this._optionMap.keys())), _c = _b.next(); !_c.done; _c = _b.next()) {
            var id = _c.value;
            if (this._compareWith(this._optionMap.get(id)._value, value))
                return id;
        }
    }
    catch (e_1_1) { e_1 = { error: e_1_1 }; }
    finally {
        if (_c && !_c.done && (_a = _b.return)) _a.call(_b);
    }
    return null;
}
/** @internal */
SelectMultipleControlValueAccessor.prototype._getOptionValue = function (valueString) {
    var id = _extractId$1(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id)._value : valueString;
};

NgSelectMultipleOption = /** @class */ (function () {
    function NgSelectMultipleOption(_element, _renderer, _select) {
        this._element = _element;
        this._renderer = _renderer;
        this._select = _select;
        if (this._select) {
            this.id = this._select._registerOption(this);
        }
    }

    Object.defineProperty(NgSelectMultipleOption.prototype, \'ngValue\', {
        /**
         * Tracks the value bound to the option element. Unlike the value binding,
         * ngValue supports binding to objects.
         */
        set: function (value) {
            if (this._select == null)
                return;
            this._value = value;
            this._setElementValue(_buildValueString$1(this.id, value));
            this._select.writeValue(this._select.value);
        },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(NgSelectMultipleOption.prototype, \'value\', {
        /**
         * Tracks simple string values bound to the option element.
         * For objects, use the \`ngValue\` input binding.
         */
        set: function (value) {
            if (this._select) {
                this._value = value;
                this._setElementValue(_buildValueString$1(this.id, value));
                this._select.writeValue(this._select.value);
            }
            else {
                this._setElementValue(value);
            }
        },
        enumerable: true,
        configurable: true
    });

    NgSelectMultipleOption.prototype._setElementValue = function (value) {
        this._renderer.setProperty(this._element.nativeElement, \'value\', value);
    }

    NgSelectMultipleOption.prototype._setSelected = function (selected) {
        this._renderer.setProperty(this._element.nativeElement, \'selected\', selected);
    }

    NgSelectMultipleOption.prototype.ngOnDestroy = function () {
        if (this._select) {
            this._select._optionMap.delete(this.id);
            this._select.writeValue(this._select.value);
        }
    }

    __decorate([core.Input('ngValue'),
        __metadata("design:type", Object),
        __metadata("design:paramtypes", [Object])],
        NgSelectMultipleOption.prototype, \'_getOptionId\', null);

    return NgSelectMultipleOption;
})();

Object.defineProperty(NgSelectMultipleOption.prototype, \'\_value\', {
    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    get: function () {
        return this._value;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgSelectMultipleOption.prototype, \'\_select\', {
    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    get: function () {
        return this._select;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgSelectMultipleOption.prototype, \'\_renderer\', {
    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    get: function () {
        return this._renderer;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgSelectMultipleOption.prototype, \'\_select\_render\', {
    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    get: function () {
        return this._select._renderer;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgSelectMultipleOption.prototype, \'\_option\_map\', {
    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    get: function () {
        return this._optionMap;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgSelectMultipleOption.prototype, \'\_element\_ref\', {
    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    get: function () {
        return this._elementRef;
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgSelectMultipleOption.prototype, \'\_id\_counter\', {
    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    get: function () {
        return this._idCounter;
    },
    enumerable: true,
    configurable: true
});
function composeValidators(validators) {
    return validators != null ? Validators.compose(validators) : null;
}

function composeAsyncValidators(validators) {
    return validators != null ? Validators.composeAsync(validators) : null;
}

function isPropertyUpdated(changes, viewModel) {
    if (!changes.hasOwnProperty('model'))
        return false;
    var change = changes['model'];
    if (change.isFirstChange())
        return true;
    return !core.looseIdentical(viewModel, change.currentValue);
}

var BUILTIN_ACCESSORS = [
    CheckboxControlValueAccessor,
    RangeValueAccessor,
    NumberValueAccessor,
    SelectControlValueAccessor,
    SelectMultipleControlValueAccessor,
    RadioControlValueAccessor,
];

function isBuiltInAccessor(valueAccessor) {
    return BUILTIN_ACCESSORS.some(function (a) { return valueAccessor.constructor === a; });
}

function syncPendingControls(form, directives) {
    form._syncPendingControls();
    directives.forEach(function (dir) {
        var control = dir.control;
        if (control.updateOn === 'submit' && control._pendingChange) {
            dir.viewToModelUpdate(control._pendingValue);
            control._pendingChange = false;
        }
    });
}

function selectValueAccessor(dir, valueAccessors) {
    if (!valueAccessors)
        return null;
    if (!Array.isArray(valueAccessors))
        _throwError(dir, 'Value accessor was not provided as an array for form control with');
    var defaultAccessor = undefined;
    var builtinAccessor = undefined;
    var customAccessor = undefined;
    valueAccessors.forEach(function (v) {
        if (v.constructor === DefaultValueAccessor) {
            defaultAccessor = v;
        } else if (isBuiltInAccessor(v)) {
            if (builtinAccessor)
                _throwError(dir, 'More than one built-in value accessor matches form control with');
            builtinAccessor = v;
        } else {
            if (customAccessor)
                _throwError(dir, 'More than one custom value accessor matches form control with');
            customAccessor = v;
        }
    });
    if (customAccessor)
        return customAccessor;
    if (builtinAccessor)
        return builtinAccessor;
    if (defaultAccessor)
        return defaultAccessor;
    _throwError(dir, 'No valid value accessor for form control with');
}

function _find(control, path, delimiter) {
    if (path == null)
        return null;
    if (!Array.isArray(path)) {
        path = path.split(delimiter);
    }
    if (Array.isArray(path) && path.length === 0)
        return null;
    // Not using Array.reduce here due to a Chrome 80 bug
    // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
    var index = list.indexOf(el);
    if (index > -1)
        list.splice(index, 1);
}

Reports that a FormControl is valid, meaning that no errors exist in the input value.

Reports that a FormControl is invalid, meaning that an error exists in the input value.

Reports that a FormControl is pending, meaning that async validation is occurring and errors are not yet available for the input value.

Reports that a FormControl is disabled, meaning that the control is exempt from ancestor calculations of validity or value.
The function that determines the synchronous validity of this control.

- `disabled`: true
- `parent`: false
- `pending`: false
- `valid`: false
- `invalid`: false
- `dirty`: false
- `pristine`: false
- `touched`: false
- `value`: null
- `controls`: null
- `group`: null
- `validator`: null
- `asyncValidator`: null

### Constructor

The function that initializes the `AbstractControl` instance.

```javascript
/**
 * Initialize the AbstractControl instance.
 * @param {AbstractControl} this
 * @memberof AbstractControl.prototype
 */
constructor (validator, asyncValidator) {
    this.validator = validator;
    this.asyncValidator = asyncValidator;
}
```

### Methods

#### `get ()`

Returns the value of the `status` property.

```javascript
/**
 * A control is `disabled` when its status is `DISABLED`.
 * @returns {boolean}
 */
get: function () { return this.status === DISABLED; },
```

#### `composeValidators (validator)`

Combines the provided validators with the existing validators.

```javascript
function composeValidators (validator) {
    return Array.isArray(validator) ?
        origValidators.map(v => composeValidator(v, origAsyncValidators)) :
        origAsyncValidators.map(v => composeAsyncValidator(v, origAsyncValidators));
}
```

#### `composeAsyncValidators (asyncValidator)`

Combines the provided async validators with the existing async validators.

```javascript
function composeAsyncValidators (asyncValidator) {
    return Array.isArray(asyncValidator) ?
        origAsyncValidators.map(v => composeAsyncValidator(v, origAsyncValidators)) :
        origAsyncValidators.map(v => composeAsyncValidator(v, origAsyncValidators));
}
```

#### `isOptionsObj (validatorOrOpts)`

Checks if the provided object is an options object.

```javascript
function isOptionsObj (validatorOrOpts) {
    return validatorOrOpts != null && !Array.isArray(validatorOrOpts) &&
        typeof validatorOrOpts === 'object';
}
```

---

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**Object.defineProperty**

`Object.defineProperty(AbstractControl.prototype, "dirty", {
    enumerable: true,
    configurable: true,
    get: function() { return !this.pristine; },
})

A control is ‘dirty’ if the user has changed the value *in the UI* and returns True if the user has changed the value of this control in the UI; compare ‘pristine’.

Programmatic changes to a control’s value do not mark it dirty.

*get: function () { return !this.pristine; }*

When false or not supplied, a ‘blur’ event on it.

*get: function () { return !this.pristine; }*

When false or not supplied, a ‘blur’ event on it.

*get: function () { return !this.pristine; }*

When false or not supplied, a ‘blur’ event on it.

*get: function () { return !this.pristine; }*

When false or not supplied,

*get: function () { return !this.pristine; }*

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*get: function () { return !this.pristine; }*

When false or not supplied,

*get: function () { return !this.pristine; }*

When false or not supplied,

*get: function () { return !this.pristine; }*

When false or not supplied,

*get: function () { return !this.pristine; }*

When false or not supplied,

*get: function () { return !this.pristine; }*
becomes dirty when
* the control's value is changed through the UI; compare `markAsTouched`.
* @see `markAsTouched()
* @see `markAsUntouched()`
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* @see `markAsPristine()`
* @param opts Configuration options that determine how the control propagates changes
* and emits events after marking is applied.
* * `onlySelf` : When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.
observables emit events with the latest status and value when the control is enabled.

* When false, no events are emitted.

* If parent has been marked artificially dirty we don’t want to re-calculate the

parent’s dirtiness based on the children.

** * `onlySelf`: When true, only update this control. When false or not supplied, update all direct ancestors. Default is false.

* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated.

* When false, no events are emitted.

** `skipPristineCheck`: If true, skips checking if the parent’s value has changed, which is used to determine the `dirty` flag.

* `skipPristineCheck`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated.

* When false, no events are emitted.

** `skipPristineCheck`: If true, skips checking if the parent’s value has changed, which is used to determine the `dirty` flag.

* `skipPristineCheck`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated.

* When false, no events are emitted.

** `skipPristineCheck`: If true, skips checking if the parent’s value has changed, which is used to determine the `dirty` flag.

* `skipPristineCheck`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated.
group:\n
*\n
* * `this.form.get('person.name');`\n
*\n
* -OR-\n
*\n
**
`this.form.get(['person', 'name']);`\n
*/\n
AbstractControl.prototype.get = function (path) { return
_find(this, path, '.'); };\n
/**\n
* @description\n
* Reports error data for the control with the given
path.\n
*\n
* @param errorCode The code of the error to check\n
* @param path A list of control
names that designates how to move from the current control\n
* to the control that should be queried for
errors.\n
*\n
* @usageNotes\n
* For example, for the following `FormGroup`:\n
*\n
* ```\n
* form = new FormGroup({\n
* address: new FormGroup({ street: new FormControl() })\n
* });\n
* ```\n
*\n
* The path to the 'street' control from the root form would be 'address' -> 'street'.\n
*\n
* It can be provided to this method in one of two formats:\n
*\n
* 1. An array of string control names, e.g.
`['address', 'street']`\n
* 1. A period-delimited list of control names in one string, e.g. `'address.street'`\n
*\n
* @returns error data for that particular error. If the control or error is not present,\n
* null is returned.\n
*/\n
AbstractControl.prototype.getError = function (errorCode, path) {\n
var control = path ?
this.get(path) : this;\n
return control && control.errors ? control.errors[errorCode] : null;\n
};\n
/**\n
* @description\n
* Reports whether the control with the given path has the error specified.\n
*\n
* @param errorCode The code of the error to check\n
* @param path A list of control names that designates
how to move from the current control\n
* to the control that should be queried for errors.\n
*\n
*
@usageNotes\n
* For example, for the following `FormGroup`:\n
*\n
* ```\n
* form = new
FormGroup({\n
* address: new FormGroup({ street: new FormControl() })\n
* });\n
* ```\n
*\n
* The path to the 'street' control from the root form would be 'address' -> 'street'.\n
*\n
* It can be
provided to this method in one of two formats:\n
*\n
* 1. An array of string control names, e.g. `['address',
'street']`\n
* 1. A period-delimited list of control names in one string, e.g. `'address.street'`\n
*\n
* If
no path is given, this method checks for the error on the current control.\n
*\n
* @returns whether the
given error is present in the control at the given path.\n
*\n
* If the control is not present, false is
returned.\n
*/\n
AbstractControl.prototype.hasError = function (errorCode, path) {\n
return
!!this.getError(errorCode, path);\n
};\n
Object.defineProperty(AbstractControl.prototype, \"root\", {\n
/**\n
* Retrieves the top-level ancestor of this control.\n
*/\n
get: function () {\n
var
x = this;\n
while (x._parent) {\n
x = x._parent;\n
}\n
return x;\n
},\n
enumerable: true,\n
configurable: true\n
});\n
/** @internal */\n
AbstractControl.prototype._updateControlsErrors = function (emitEvent) {\n
this.status =
this._calculateStatus();\n
if (emitEvent) {\n
this.statusChanges.emit(this.status);\n
}\n
if (this._parent) {\n
this._parent._updateControlsErrors(emitEvent);\n
}\n
};\n
/**
@internal */\n
AbstractControl.prototype._initObservables = function () {\n
this.valueChanges = new
core.EventEmitter();\n
this.statusChanges = new core.EventEmitter();\n
};\n
AbstractControl.prototype._calculateStatus = function () {\n
if (this._allControlsDisabled())\n
return
DISABLED;\n
if (this.errors)\n
return INVALID;\n
if
(this._anyControlsHaveStatus(PENDING))\n
return PENDING;\n
if
(this._anyControlsHaveStatus(INVALID))\n
return INVALID;\n
return VALID;\n
};\n
/**
@internal */\n
AbstractControl.prototype._anyControlsHaveStatus = function (status) {\n
return
this._anyControls(function (control) { return control.status === status; });\n
};\n
/** @internal */\n
AbstractControl.prototype._anyControlsDirty = function () {\n
return this._anyControls(function (control) {
return control.dirty; });\n
};\n
/** @internal */\n
AbstractControl.prototype._anyControlsTouched =
function () {\n
return this._anyControls(function (control) { return control.touched; });\n
};\n
/**
@internal */\n
AbstractControl.prototype._updatePristine = function (opts) {\n
if (opts === void 0) {
opts = {}; }\n
this.pristine = !this._anyControlsDirty();\n
if (this._parent && !opts.onlySelf) {\n
this._parent._updatePristine(opts);\n
}\n
};\n
/** @internal */\n
AbstractControl.prototype._updateTouched = function (opts) {\n
if (opts === void 0) { opts = {}; }\n
this.touched = this._anyControlsTouched();\n
if (this._parent && !opts.onlySelf) {\n
this._parent._updateTouched(opts);\n
}\n
};\n
/** @internal */\n

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AbstractControl.prototype._isBoxedValue = function (formState) {
    return typeof formState === 'object' && formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState;
};
/* @internal */
AbstractControl.prototype.registerOnCollectionChange = function (fn) {
    this.onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._setUpateStrategy = function (opts) {
    if (isOptionsObj(opts) &&
    opts.updateOn !== null) {
        this._updateOn = opts.updateOn;
    }
};
/* @internal */
AbstractControl.prototype._parentMarkedDirty = function (onlySelf) {
    var parentDirty = this._parent &&
    this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
};
AbstractControl.prototype._parentMarkedDirty = function (onlySelf) {
    var parentDirty = this._parent &&
    this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty(dirty);
};
return AbstractControl.prototype._parentMarkedDirty(onlySelf);
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._setUpdateStrategy = function (validatorOrOpts) {
    if (isOptionsObj(validatorOrOpts) &&
    validatorOrOpts.updateOn !== null) {
        this._updateOn = validatorOrOpts.updateOn;
    }
};
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._applyFormState = function (formState) {
    if (typeof formState === 'object' &&
    formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState) {
        return this.value && this.disabled;
    }
};
/* @internal */
AbstractControl.prototype._isBoxedValue = function (formState) {
    return typeof formState === 'object' && formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState;
};
/* @internal */
AbstractControl.prototype._parentMarkedDirty = function (onlySelf) {
    var parentDirty = this._parent &&
    this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
};
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._setUpdateStrategy = function (validatorOrOpts) {
    if (isOptionsObj(validatorOrOpts) &&
    validatorOrOpts.updateOn !== null) {
        this._updateOn = validatorOrOpts.updateOn;
    }
};
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._applyFormState = function (formState) {
    if (typeof formState === 'object' &&
    formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState) {
        return this.value && this.disabled;
    }
};
/* @internal */
AbstractControl.prototype._isBoxedValue = function (formState) {
    return typeof formState === 'object' && formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState;
};
/* @internal */
AbstractControl.prototype._parentMarkedDirty = function (onlySelf) {
    var parentDirty = this._parent &&
    this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
};
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._setUpdateStrategy = function (validatorOrOpts) {
    if (isOptionsObj(validatorOrOpts) &&
    validatorOrOpts.updateOn !== null) {
        this._updateOn = validatorOrOpts.updateOn;
    }
};
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._applyFormState = function (formState) {
    if (typeof formState === 'object' &&
    formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState) {
        return this.value && this.disabled;
    }
};
/* @internal */
AbstractControl.prototype._isBoxedValue = function (formState) {
    return typeof formState === 'object' && formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState;
};
/* @internal */
AbstractControl.prototype._parentMarkedDirty = function (onlySelf) {
    var parentDirty = this._parent &&
    this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
};
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._setUpdateStrategy = function (validatorOrOpts) {
    if (isOptionsObj(validatorOrOpts) &&
    validatorOrOpts.updateOn !== null) {
        this._updateOn = validatorOrOpts.updateOn;
    }
};
/* @internal */
AbstractControl.prototype._registerOnCollectionChange = function (fn) {
    this._onCollectionChange = fn;
};
/* @internal */
AbstractControl.prototype._applyFormState = function (formState) {
    if (typeof formState === 'object' &&
    formState !== null &&
    Object.keys(formState).length === 2 && 'value' in formState &&
    'disabled' in formState) {
        return this.value && this.disabled;
    }
};
form control

 Configuration options that determine how the control propagates changes and emits events when the value changes.

 * `updateValueAndValidity` method.

 * `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false`.

 * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

 When false, no events are emitted.

 * `emitModelToViewChange`: When true or not supplied (the default), each change triggers an event to update the model.

 * `ngModelChange`: When true or not supplied (the default), each change triggers an event to update the model.

 * `eventToView`: When true or not supplied (the default), each change triggers an event to update the model.

 FormControl.prototype.setValue = function (value, options) {
   var _this = this;
   if (options === void 0) {
     options = {};
   }
   this.value = this._pendingValue = value;
   if (this._onChange.length &&
     options.emitModelToViewChange !== false) {
     this._onChange.forEach(function (changeFn) { return changeFn(_this.value, options.emitViewToModelChange !== false); });
   }
   this.updateValueAndValidity(options);
   if (this._isBoxedValue(formState)) {
     this.setValue(this._pendingValue, { onlySelf: true, emitEvent: false });
   }
   return false;

   };
   FormControl.prototype._applyFormState = function (formState) {
   if (this._isBoxedValue(formState)) {
     this.value = this._pendingValue = value;
     if (this._isBoxedValue(formState)) {
       this.setValue(this._pendingValue, { onlySelf: true, emitEvent: false });
     }
     return false;
   };
   FormControl.prototype.registerOnDisabledChange = function (fn) {
     this._onDisabledChange.push(fn);
   };
   FormControl.prototype._forEachChild = function (cb) {
   };
   FormControl.prototype._updateValue = function () {
   };
   FormControl.prototype._syncPendingControls = function () {
   if (this.updateOn === FormControl.prototype.reset = function (formState, options) {
     if (formState === void 0) { formState = null; }
     if (options === void 0) { options = {};
   };
   this.value = this._pendingValue = value;
   if (this._onChange.length &&
     options.emitModelToViewChange !== false) {
     this._onChange.forEach(function (changeFn) { return changeFn(_this.value, options.emitViewToModelChange !== false); });
   }
   this.updateValueAndValidity(options);
   if (this._isBoxedValue(formState)) {
     this.setValue(this._pendingValue, { onlySelf: true, emitEvent: false });
   }
   return false;

   };
   FormControl.prototype.registerOnChange = function (fn) {
     this._onChange.push(fn);
   };
   FormControl.prototype._clearChangeFns = function () {
   };
   FormControl.prototype._allControlsDisabled = function () { return false;
   };
   FormControl.prototype._anyControls = function (condition) { return false;
   };
   FormControl.prototype.patchValue = function (value, options) {

   };
   FormControl.prototype.setValue = function (value, options) {
   this.setValue(value, options);
   }
   FormControl.prototype._resetControls = function () {
     this._onCollectionChange = function () { };
   };
   FormControl.prototype._clearChangeFns = function () {
   };
   FormControl.prototype._applyFormState(formState);
   this.markAsPristine(options);
   this.markAsUntouched(options);
   this.setValue(this.value, options);
   this._pendingChange = false;
   this._onChange.push(fn);
   this._onDisabledChange = function (fn) {

   };
   FormControl.prototype._forEachChild = function (cb) { };
   FormControl.prototype._updateValue = function () { };
   FormControl.prototype._syncPendingControls = function () { };
   FormControl.prototype._allControlsDisabled = function () { return false;
   };
   FormControl.prototype._anyControls = function (condition) { return false;
   };
   FormControl.prototype.patchValue = function (value, options) {

   };
   FormControl.prototype.setValue = function (value, options) {
   this.setValue(value, options);
   }
   FormControl.prototype._resetControls = function () {
     this._onCollectionChange = function () { };
   };
   FormControl.prototype._clearChangeFns = function () { };
   FormControl.prototype._applyFormState(formState);
this._onCollectionChange();
        };
        /**
         * Remove a control from this group.
         *
         *
         * @param control Provides the control for the given name
         */
        FormGroup.prototype.addControl = function (name, control) {
            if (!this.controls[name]) {
                this.controls[name] = control;
            }
            else {
                this.value = (this.value || {})[name];
            }
        }
        /**
         * Add a control to this group.
         *
         * @param control Provides the control for the given name
         * @param otherValidator Adds a group level async validator.
         */
        function FormGroup(controls, validatorOrOpts, asyncValidator) {
            var _this = this;
            this._setUpdateStrategy(validatorOrOpts);
            this._setUpControls();
            return _this;
        }
        /**
         * Creates a new `FormGroup` instance, passing a collection of
         * child controls.
         *
         * @param name The name for the control.
         *
         * @param control Provides the control for the given name
         * @param otherValidator Adds a group level async validator.
         */
        function FormGroup(controls, validatorOrOpts, asyncValidator) {
            var _this = this;
            this._setUpdateStrategy(validatorOrOpts);
            this._setUpControls();
            return _this;
        }
        /**
         * Tracks the value and validity state of a group of
         * `FormControl` instances.  A `FormGroup` aggregates the
         * values of each child `FormControl` into one object, with each control
         * name as the key.  It calculates its validity state based on the
         * status of each child, which is usually invalid if all child validity
         * states are invalid.
         *
         * A `FormGroup` can be accessed via any child control.
         *
         * @param name The name for the control.
         *
         * @param control Provides the control for the given name
         * @param otherValidator Adds a group level async validator.
         */
        function FormGroup(controls, validatorOrOpts, asyncValidator) {
            var _this = this;
            this._setUpdateStrategy(validatorOrOpts);
            this._setUpControls();
            return _this;
        }
        /**
         * Creates a form group with 2 controls
         * @param control Provides the control for the given name
         * @param otherValidator Adds a group level async validator.
         */
        function FormGroup(controls, validatorOrOpts, asyncValidator) {
            var _this = this;
            this._setUpdateStrategy(validatorOrOpts);
            this._setUpControls();
            return _this;
        }
        /**
         * Creates a form group with 2 controls
         * @param control Provides the control for the given name
         * @param otherValidator Adds a group level async validator.
         */
        function FormGroup(controls, validatorOrOpts, asyncValidator) {
            var _this = this;
            this._setUpdateStrategy(validatorOrOpts);
            this._setUpControls();
            return _this;
        }
        /**
         * Creates a form group with 2 controls
         * @param control Provides the control for the given name
         * @param otherValidator Adds a group level async validator.
         */
        function FormGroup(controls, validatorOrOpts, asyncValidator) {
            var _this = this;
            this._setUpdateStrategy(validatorOrOpts);
            this._setUpControls();
            return _this;
        }
        /**
         * Creates a form group with 2 controls
         * @param control Provides the control for the given name
         * @param otherValidator Adds a group level async validator.
         */
        function FormGroup(controls, validatorOrOpts, asyncValidator) {
            var _this = this;
            this._setUpdateStrategy(validatorOrOpts);
            this._setUpControls();
            return _this;
FormGroup.prototype.setValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    this.updateValueAndValidity(options);
    this._onCollectionChange();
};

/* */

/* */

FormGroup.prototype.setValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    this.updateValueAndValidity(options);
    this._onCollectionChange();
};
`FormGroup`, marks all descendants are marked `pristine` and `untouched`, and
the value of all descendants to null.
* You reset to a specific form state by passing in a map of states that matches the structure of your form, with control names as keys. The state
* is a standalone value or a form state object with both a value and a disabled
status.
* @param value Resets the control with an initial value, or an object that defines the initial value and disabled state.
* @param options Configuration options that determine how the control propagates changes and emits events when the group is reset.

* `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

When false, no events are emitted.

* The configuration options are passed to the `{ @link
AbstractControl#updateValueAndValidity } method.

```ts
FormGroup.prototype._reduceChildren = function () {
    var _this = this;
    return subtreeUpdated;
}
```

### Reset the form group values

```ts
const form = new FormGroup({
    first: new FormControl('first name'),
    last: new FormControl('last name')
});
```

The aggregate value of the `FormGroup`, including any disabled controls.

* Retrieves all values regardless of disabled status.

* The `value` property is the best way to get the value of the group, because

* it excludes disabled controls in the `FormGroup`.

* The form values are not updated unless the control is marked `dirty`.

* The form is marked `dirty` whenever the `FormGroup`s properties change.

* The form is marked `pristine` if all controls are marked `pristine`.

* The form is marked `dirty` when the form is submitted.

* The form is marked `dirty` whenever the `FormGroup`s properties change.

### Reset the form group values and disabled status

```ts
const form = new FormGroup({
    first: new FormControl('first name'),
    last: new FormControl('last name')
});
```

* You reset to a specific form state by passing in a map of states

* that matches the structure of your form, with control names as keys. The state

* is a standalone value or a form state object with both a value and a disabled

* status.

* @param value Resets the control with an initial value, or an object that defines the initial value and disabled state.

* @param options Configuration options that determine how the control propagates changes and emits events when the group is reset.

When false, no events are emitted.

* The configuration options are passed to the `{ @link
AbstractControl#updateValueAndValidity } method.

```ts
FormGroup.prototype._reduceChildren = function () {
    var _this = this;
    return subtreeUpdated;
}
```

### Reset the form group values

```ts
const form = new FormGroup({
    first: new FormControl('first name'),
    last: new FormControl('last name')
});
```

* You reset to a specific form state by passing in a map of states

* that matches the structure of your form, with control names as keys. The state

* is a standalone value or a form state object with both a value and a disabled

* status.

* @param value Resets the control with an initial value, or an object that defines the initial value and disabled state.

* @param options Configuration options that determine how the control propagates changes and emits events when the group is reset.

When false, no events are emitted.

* The configuration options are passed to the `{ @link
AbstractControl#updateValueAndValidity } method.

```ts
FormGroup.prototype._reduceChildren = function () {
    var _this = this;
    return subtreeUpdated;
}
```
FormArray.prototype.push = function (control) {
    return this.controls[index];
};

/**
 * Insert a new `AbstractControl` at the end of the array.
 *
 * @param index Index in the array to retrieve the control
 */
FormArray.prototype.at = function (index) {
    return _this;
};

/**
 * Get the `AbstractControl` at the given `index` in the array.
 *
 * @param index Index in the array to retrieve the control
 */
FormArray.prototype.get = function (index) {
    return _this;
};

/**
 * Removes the `AbstractControl` at the given `index` from the array.
 *
 * @param index Index in the array to remove the control
 */
FormArray.prototype.remove = function (index) {
    return this.controls.pop();
};

/**
 * Removes the `AbstractControl` at the given `index` from the array.
 *
 * @param index Index in the array to remove the control
 */
FormArray.prototype.removeAt = function (index) {
    return this.controls.splice(index, 1);};

/**
 * Removes all the `AbstractControl`s from the array.
 */
FormArray.prototype.clear = function () {
    return _this;
};

/**
 * Creates a new `FormArray` instance.
 *
 * @param controls An array of child `AbstractControl`s.
 * @param validatorOrOpts A synchronous validator function, or an array of such functions, or an
 * `AbstractControlOptions` object that contains validation functions and a validation trigger.
 * @param asyncValidator A synchronous async validator function, or an array of such functions, or an
 * `AbstractControlOptions` object that contains async validation functions and an async validation trigger.
 */
FormArray = /** @class */ (function (_super) {
    __extends(FormArray, _super);
    function FormArray(controls, validatorOrOpts, asyncValidator) {
        var _this = _super.call(this,
            coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator)) || this;
        _this.controls = controls;
        _this._initObservables();
        _this._setUpdateStrategy(validatorOrOpts);
        return _this;
    }
    FormArray.prototype.push = function (control) {
        return this.controls.push(control);
    };
```javascript
FormArray.prototype.patchValue = function (value, options) {
    var _this = this;

    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);

    value.forEach(function (newValue, index) {
        _this._throwIfControlMissing(index);
        newValue = newValue !== _this.getValue(index) ? newValue : _this.getValue(index);
        _this._registerControl(newValue);
        _this.controls[index] = newValue;
    });

    this.updateValueAndValidity(options);
}
```
FormArray.prototype._anyControls = function (condition) {
    return this.controls.some(function (control)
    { return condition(control); });
};// ** @internal */

FormArray.prototype._setUpControls = function () {
    var _this = this;
    this._forEachChild(function (control) { return _this._registerControl(control); });
};// ** @internal */

FormArray.prototype._checkAllValuesPresent = function (value) {
    this._forEachChild(function (control, i) {
        if (value[i] === undefined) {
            throw new Error("Must supply a value for form control at
            index: \"\" + i + \"\"\");\n        }
    });
};// ** @internal */

FormArray.prototype._allControlsDisabled = function () {
    var e_2, _a;
    try {
        for (var _b = __values(this.controls), _c = _b.next(); !_c.done; _c = _b.next()) {
            var control = _c.value;
            if (control.enabled)
                return false;
        }
    }
    catch (e_2_1) { e_2 = { error: e_2_1 }; }
    finally {
        try {
            if (_c && !_c.done && (_a = _b.return)) _a.call(_b);
        } finally { if (e_2) throw e_2.error; }
    }
    return this.controls.length > 0 || this.disabled;
}

FormArray.prototype._registerControl = function (control) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
}

return FormArray;
    }(AbstractControl));

/**
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 * found in the LICENSE file at https://angular.io/license
 */

var formDirectiveProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return NgForm; })
};

var 0 = function () {
    return Promise.resolve(null);
}();

var resolvedPromise = (0)();

/**
 * @description
 * Creates a top-
 * level `FormGroup` instance and binds it to a form
 * to track aggregate form value and validation status.
 *
 * As soon as you import the `FormsModule`, this directive becomes active by default on
 * all `form` tags. You don't need to add a special selector.
 * You optionally export the directive into a local template
 * variable using `ngForm` as the key
 * (ex: `#myForm="ngForm"`). This is optional, but useful. Many
 * properties from the underlying forms are duplicated on the directive itself, so a reference to
 * gives you access to the aggregate value and validity status of the form, as well as
 * user interaction
 * properties like `dirty` and `touched`. You may use `NgModelGroup` to create sub-groups within the form.
 *
 * If
 * necessary, listen to the directive's `ngSubmit` event to be notified when the user has
 * triggered a form
 * submission. The `ngSubmit` event emits the original form
 * submission event.
 * In template driven forms, all `form` tags are automatically tagged as `NgForm`
 * To import the `FormsModule` but skip its
 * usage in some forms, use `ngNoForm` with a
 * name attribute. You may use `NgModelGroup` to create sub-groups within the form.
 *
 * In reactive forms, using `ngNoForm` is
 * unnecessary because the
 * tags are inert. In that case, you would
 * refrain from using the `formGroup` directive.
 *
 * @usageNotes
 * ### Listening for form submission
 * The following example shows how to
 * capture the form values from the `ngSubmit` event.
 * ```
 * myForm.
 * ```
 * 
 * ### Setting the update options
 * The following example shows how to change the `updateOn` option from its default using
 * `ngFormOptions`.
 * ```
 * myFormOptions.
 * ```
 * 
 * ### Native
 * DOM validation UI
 * In order to prevent the native DOM form validation UI from interfering with
 * Angular's form validation, Angular automatically adds the `novalidate` attribute on any `form`
 * whenever
 * `FormModule` or `ReactiveFormsModule` are imported into the application.
 * If you want to explicitly enable native DOM validation UI with Angular forms, you can add the
 * `ngNativeValidate` attribute to the
 * `form` element.
 * ```
 * ```
 *
```javascript
NgForm.prototype.ngAfterViewInit = function () { this._setUpdateStrategy(); };

Object.defineProperty(NgForm.prototype, "formDirective", { 
    get: function () { return this.form; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgForm.prototype, "controls\", { 
    get: function () { return this.form.controls; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgForm.prototype, "controls", { 
    get: function () { return 
```
```javascript
/**
 * The synchronous validators registered with this group.
 */
group.get = function () {
    return this._validators;};

/**
 * The path to this group from the top-level directive.
 */
group.getPath = function (path) {
    path.pop();
    return path.length ? this.form.get(path) : this.form;};

/**
 * The controlPath this.group from its parent group.
 */
AbstractFormGroupDirective.prototype.ngOnDestroy = function () {
    if (this.formDirective) {
        this.formDirective.removeFormGroup(this);
    }
};

/**
 * An internal callback method triggered before the instance is destroyed.
 * Removes the group from its parent group.
 */
AbstractFormGroupDirective.prototype.ngOnInit = function () {
    if (this.formDirective) {
        this.formDirective.addFormGroup(this);
    }
};

/**
 * @description
 * An internal callback method triggered on the instance after the inputs are set.
 * Registers the group with its parent group.
 */
 AbstractFormGroupDirective.prototype.ngOnInit = function () {
    if (this.formDirective) {
        this.formDirective.addFormGroupGroup(this);
    }
};

/**
 * @description
 * Method called when the \"reset\" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the \"submit\" event as its payload.
 */
 this.ngSubmit.emit(Sevent);\n
/**
 * @description
 * Method called when the \"reset\" event is triggered on the form.
 * Resets the form to an initial value and resets its
 * submitted status.
 */
 NgForm.prototype.resetForm = function (value) {
    if (value === void 0) {
        value = undefined;
    }
    this.form.reset(value);
};

/**
 * @description
 * Method called on the form.
 * Triggers the `ngSubmit` emitter to emit the \"submit\" event as its payload.
 */
 NgForm.prototype.onSubmit = function (event) {
    this.submitted = true;
    syncPendingControls(this.form, this._directives);
};
```

AbstractFormGroupDirective.prototype._checkParentType = function () {
    if (!(this._parent instanceof AbstractFormGroupDirective) && !(this._parent instanceof ControlContainer)) {
        TemplateDrivenErrors.modelParentException();
    }
};

TemplateDrivenErrors.formGroupNameException = function () {
    throw new Error("ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use formControlName instead of ngModel (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
};

TemplateDrivenErrors.missingNameException = function () {
    throw new Error("If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.\n\n      Example 1: <input [(ngModel)]=\"person.firstName\" name=\"first\">\n      Example 2: <input [(ngModel)]=\"person.firstName\" [ngModelOptions]=\"{standalone: true}\">\n    ");
};

TemplateDrivenErrors.modelGroupParentException = function () {
    throw new Error("NgModelGroup cannot be used with a parent formGroup directive.\n\n      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
};

var NgModelGroup = /** @class */ (function (_super) {
    __extends(NgModelGroup, _super);
    function NgModelGroup(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }
    NgModelGroup_1 = NgModelGroup;

    __decorate([core.Input('ngModelGroup'),
        __metadata("design:type", String)
    ], NgModelGroup.prototype, "name", void 0);

    return NgModelGroup_1;
};

@description
    * The async validators registered with this group.
* @return composeAsyncValidators(this._asyncValidators);
]
* @enumerable: true

@internal
AbstractFormGroupDirective.prototype._checkParentType = function () {
    return AbstractFormGroupDirective.prototype._checkParentType;
};

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TemplateDrivenErrors = /** @class */ (function () {
    function TemplateDrivenErrors() {
    }

    TemplateDrivenErrors.formControlNameException = function () {
        throw new Error("ngModel cannot be used to register form controls with a parent formGroup directive. Try using formGroup's partner directive instead. Example:\n\n      " + FormErrorExamples.formControlName + "\n\n      Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:\n\n      Example:\n\n      " + FormErrorExamples.ngModelWithFormGroup);
    }

    TemplateDrivenErrors.modelParentException = function () {
        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroup directive. Try using formGroup's partner directive instead. Example:\n\n      " + FormErrorExamples.formControlName + "\n\n      Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:\n\n      Example:\n\n      " + FormErrorExamples.ngModelWithFormGroup);
    }

    return TemplateDrivenErrors;
});

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 * found in the LICENSE file at https://angular.io/license
 */

modelGroupProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return NgModelGroup; })
};

/**
 * @description
 * Creates and binds a `FormGroup` instance to a DOM element.
 *
 * This directive can only be used as a child of `NgForm` (within `<form>` tags).
 *
 * Provide a name for the sub-group and it will become the key for the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `"myGroup":"ngModelGroup"`).
 *
 * The following example shows you how to combine controls together in a sub-group of the form.
 *
 * @example forms/ts/ngModelGroup/ng_model_group_example.ts region='Component'
 *
 * @ngModule FormsModule
 * @publicApi
 */

var NgModelGroup = /** @class */ (function (_super) {
    __extends(NgModelGroup, _super);
    function NgModelGroup(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }
    NgModelGroup.prototype._checkParentType = function () {
        if (!(this._parent instanceof AbstractFormGroupDirective) && !(this._parent instanceof ControlContainer)) {
            TemplateDrivenErrors.modelParentException();
        }
    };

    ngModuleFormsModule

    @publicApi

    var NgModelGroup = /** @class */ (function (_super) {
        __extends(NgModelGroup, _super);
        function NgModelGroup(parent, validators, asyncValidators) {
            var _this = _super.call(this) || this;
            _this._parent = parent;
            _this._validators = validators;
            _this._asyncValidators = asyncValidators;
            return _this;
        }
        NgModelGroup.prototype._checkParentType = function () {
            if (!(this._parent instanceof AbstractFormGroupDirective) && !(this._parent instanceof ControlContainer)) {
                TemplateDrivenErrors.modelParentException();
            }
        };

        return NgModelGroup_1;
    });

    return NgModelGroup_1;

    /**
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     * found in the LICENSE file at https://angular.io/license
     */
    var
    @description
    * The async validators registered with this group.
    *
    * get: function () {
    */
    * @contrast
    * configurable: true
    */
    return composeAsyncValidators(this._asyncValidators);
    },
    enumerable: true,
    *
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    * found in the LICENSE file at https://angular.io/license
    */
    return composeAsyncValidators(this._asyncValidators);
    },
    enumerable: true,
    *
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    * found in the LICENSE file at https://angular.io/license
    */
    return composeAsyncValidators(this._asyncValidators);
    },
    enumerable: true,
    *
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    * found in the LICENSE file at https://angular.io/license
    */
    return composeAsyncValidators(this._asyncValidators);
    },
    enumerable: true,
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```typescript
__param(0, core.Host()), __param(0, core.SkipSelf()), __param(1, core.Optional()), __param(1, core.SkipSelf()), __param(1, core.Inject(NG_VALIDATORS)), __param(2, core.Optional()), __param(2, core.SkipSelf()), __param(2, core.Inject(NG_ASYNC_VALIDATORS)), __metadata("design:paramtypes", [ControlContainer, Array, Array])
]
); NgModelGroup;
return NgModelGroup;
```

```typescript
/**
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 * found in the LICENSE file at https://angular.io/license
 */
var formControlBinding = {
    provide: NgControl,
    useExisting: core.forwardRef(function () { return NgModel; })
};
var 0$1 = function () { return Promise.resolve(null);

/**
 * `ngModel` forces an additional change detection run when its inputs change:
 * E.g.:
 * ```
 * <div>{{myModel.valid}}</div>
 * <input [(ngModel)]="myValue" #myModel="ngModel">
 * ```
 * I.e. `ngModel` can export itself on the element and then be used in the template.
 * Normally, this would result in expressions before the `input` that use the exported directive
 * to have and old value as they have been bound
 * dirty checked before. As this is a very common case for `ngModel`, we added this second change
 * detection run.
 * - Notes:
 * - this is just one extra run no matter how many `ngModel` have been changed.
 * - this is a general problem when using `exportAs` for directives!
 * - var resolvedPromise$1 = (0$1)();
```

```typescript
/**
 * @description
 * Creates a `FormControl` instance from a domain model and binds it to a form
 * control element.
 * The `FormControl` instance tracks the value, user interaction, and validation
 * status of the control and keeps the view synced with the model. If used within
 * a parent form, the directive also registers itself with the form as a child
 * `control`. This directive is used by itself or as part of a larger form. Use the
 * `ngModel` selector to activate it.
 * It accepts a domain model as an optional `Input`. If you have a one-way binding
 * to `ngModel` with `[]` syntax, changing the value of the domain model in the component
 * class sets the value in the view. If you have a two-way binding with `[()]` syntax
 * (also known as 'banana-box syntax'), the value in the UI always syncs back to the
 * domain model in your class.
 * - To inspect the properties of the associated `FormControl` (like validity state),
 *   export the directive into a local template variable using `ngModel` as the key (ex: `#myVar="ngModelValue"`).
 *   You then access the control using the directive's `control` property.
 * - but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access.
 *   See a full list of properties directly available in
 *   `AbstractControlDirective`.
 *   See `RadioControlValueAccessor` * @see `SelectControlValueAccessor`
 * # Using ngModel on a standalone control
 * The following examples show a simple standalone control using `ngModel`:
 * - * @example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'
 * The following examples show controls using `ngModel` within a form:
 * - * @example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'
 * When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute
 * so that the control can be registered with the parent form under that name.
 * In the context of a parent form, it's often unnecessary to include one-way or two-way binding,
 * as the parent form syncs the value for you. You access its properties
 * by exporting it into an
 * local template variable using `ngForm` such as (`#f="ngModelValue"`). Use the variable
 * where
 * needed on form submission.
 * If you do need to populate initial values into your form, using a one-way binding for
 * `ngModel` tends to be sufficient as long as you use the exported form's value rather
 * than the domain model's value on submit.
 * * # Using ngModel within a form
 * The following examples show controls using `ngModel` within a form:
 * - * @example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'
 * # Using a standalone ngModel within a group
 * The following example shows you how to use a standalone ngModel control
 * within a group. This controls the display of the form, but doesn't contain form data.
 * # Setting the ngModel name attribute through options
 * * The following example shows you an alternate way to set the name attribute. The name attribute is used
 * within a custom form component, and the name `@Input` property serves a different purpose.
 * # my-person-control name="Nancy" ngModel [ngModelOptions]="{}"/>
 */
```
```typescript

NgModel = /** @class */ (function (_super) {
  __extends(NgModel, _super);

  function NgModel(parent, validators, asyncValidators, valueAccessors) {
    var _this = _super.call(this) || this;
    _this.control = new FormControl();
    /** @internal */
    _this._registered = false;

    /**
     * @description
     * Event emitter for producing the `ngModelChange` event after edit.
     */
    _this.update = new core.EventEmitter();
    _this._parent = parent;
    _this._rawValidators = validators || [];
    _this._rawAsyncValidators = asyncValidators || [];

    _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
    return _this;
  }

  /**
   * @description
   * Lifecycle method called when the directive's inputs change. For internal use
   * only.
   */
  NgModel.prototype.ngOnChanges = function (changes) {
    this._checkForErrors();
    if (!this._registered)
      this._setUpControl();
    if ('isDisabled' in changes) {
      this._updateDisabled(changes);
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      this._updateValue(this.model);
      this.viewModel = this.model;
    }
  };

  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal
   * use only.
   */
  NgModel.prototype.ngOnDestroy = function () { this.formDirective &&
    this.formDirective.removeControl(this); };

  Object.defineProperty(NgModel.prototype, "path", {
    /**
     * @description
     * Returns an array that represents the path from the top-level form to this
     * control.
     * Each index is the string name of the control on that level.
     */
    get: function ()
      { return this._parent ? controlPath(this.name, this._parent) : [this.name]; }
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(NgModel.prototype, "formDirective", {
    /**
     * @description
     * The top-level directive for this control if present, otherwise null.
     */
    get: function () { return this._parent ? this._parent.formDirective : null; }
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(NgModel.prototype, "validator", {
    /**
     * @description
     * Synchronous validator function composed of all the synchronous validators
     * registered with this directive.
     */
    get: function () { return composeValidators(_this._rawValidators); }
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(NgModel.prototype, "asyncValidator", {
    /**
     * @description
     * Async validator function composed of all the
     * async validators registered with this
     * directive.
     */
    get: function () {
      return composeAsyncValidators(_this._rawAsyncValidators);
    }
    enumerable: true,
    configurable: true
  });

  /**
   * @description
   * Sets the new value for the view model and emits an
   * `ngModelChange` event.
   */
  NgModel.prototype.viewToModelUpdate = function (newValue) {
    this.viewModel = newValue;
    this.update.emit(newValue);
  };

  NgModel.prototype._setUpControl = function () {
    this._setUpdateStrategy();
    if (!this._isStandalone()) {
      this._checkParentType();
    }
    this._checkName();
  };

  NgModel.prototype._setUpdateStrategy = function () {
    if (_this.options && _this.options.updateOn != null) {
      _this.control._updateOn = _this.options.updateOn;
    }
  };

  NgModel.prototype._isStandalone = function () {
    return !(_this._parent || !(_this._parent.formDirective || _this._parent instanceof AbstractFormGroupDirective)) &&
    _this._isStandalone() || !(_this._parent instanceof AbstractFormGroupDirective) &&
    _this._isStandalone();
  };

  NgModel.prototype._checkForErrors = function () {
    if (!this._isStandalone()) {
      this._checkParentType();
    }
    this._checkName();
  };

  NgModel.prototype._checkParentType = function () {
    if (!(_this._parent instanceofNgModelGroup) &&
    _this._parent instanceof AbstractFormGroupDirective) {
      TemplateDrivenErrors.formGroupNameException();
    } else if (!(_this._parent instanceof NgModelGroup) &&
    !(_this._parent instanceof NgForm)) {
      TemplateDrivenErrors.modelParentException();
    }
  };

  NgModel.prototype._checkName = function () {
    if (this.viewModel && this.viewModel.name) {
      var name = this.viewModel.name;
      var index = name.lastIndexOf('[');
      if (index >= 0) {
        var name = name.substring(0, index);
      }
      if (name !== this.name) {
        throw new TemplateDrivenErrors.checkNameException(name, this.name);
      }
    }
  };
});
```
function() {

  if (this.options && this.options.name) {
    this.name = this.options.name;
  } else if (this.isStandalone() && !this.name) {
    this.name = this._createName();
  }
}

NgModel.prototype._updateValue = function(value) {
  var this$1 = this;

  resolvedPromise$1.then(function() {
    _this.control.setValue(value, { emitViewToModelChange: false });
  });
}

NgModel.prototype._updateDisabled = function(changes) {
  var this$1 = this;

  var disabledValue = changes['isDisabled'].currentValue;

  var isDisabled = disabledValue === this$1.control.disabled;

  resolvedPromise$1.then(function() {
    if (isDisabled && !this$1.control.disabled) {
      this$1.control.disable();
    } else if (!isDisabled && this$1.control.disabled) {
      this$1.control.enable();
    }
  });
}

__decorate([core.Input()], NgModel.prototype, "name", void 0);

__decorate([core.Input('disabled'), __metadata("design:type", Boolean)], NgModel.prototype, "isDisabled", void 0);

__decorate([core.Input('ngModel'), __metadata("design:type", Object)], NgModel.prototype, "model", void 0);

__decorate([core.Input('ngModelOptions'), __metadata("design:type", Object)], NgModel.prototype, "options", void 0);

__decorate([core.Output('ngModelChange'), __metadata("design:type", Object)], NgModel.prototype, "update", void 0);

NgModel = __decorate([core.Directive({
    selector: '[ngModel]:not([formControlName]):not([formControl])',
    providers: [formControlBinding$1, formControlOptions$1, formControlOptions$2, formControlOptions$3, formControlOptions$4],
    host: { 'novalidate': '' },
}, formControlBinding$1, formControlOptions$1, formControlOptions$2, formControlOptions$3, formControlOptions$4
], NgModel);

return NgModel;
}

/**
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 */

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 *
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */

var NgNoValidate = /** @class */ (function () {

  function NgNoValidate() {
  }

  NgNoValidate = __decorate([core.Directive({
    selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
    host: { 'novalidate': '' },
  })),NgNoValidate$1]);

  return NgNoValidate;
}

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 *
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 */

/**
 * Token to provide to turn off the ngModel warning on formControl and formControlName.
 */

var NG_MODEL_WITH_FORM_CONTROL_WARNING = new core.InjectionToken('NgModelWithFormControlWarning');

var formControlBinding$1 = {
  provide: NgControl,
  useExisting: core.forwardRef(function () { return FormControlDirective; })
};

var NgNoValidate = function () {
  var NgNoValidate = function(){
    return NgNoValidate;
  };

  return NgNoValidate;
}

var NG_MODEL_WITH_FORM_CONTROL_WARNING = new core.InjectionToken('NgModelWithFormControlWarning');

var formControlBinding$1 = {
  provide: NgControl,
  useExisting: core.forwardRef(function () { return FormControlDirective; })
};

var NgNoValidate = function () {
  var NgNoValidate = function(){
    return NgNoValidate;
  };

  return NgNoValidate;
}
reasons. First, developers have found this pattern\n* confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion. In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.

* To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven

directives. * * * * After (choice 1 - use reactive forms):

```javascript
[formControl]='control'\n* * * *\n```

* After (choice 2 - use template-driven forms):

```html
* * * *\n```

/* Synchronous validator function composed of all the synchronous validators registered with this

```javascript
Object.defineProperty(FormControlDirective.prototype, 'validator', {
* * * *\n```

* Each index is the string name of the control on that level.

```javascript
return [];
```
enumerable: true,\n
configurable: true\n
});\n
Object.defineProperty(FormControlDirective.prototype, \"asyncValidator\", {\n
/**\n
*
@description\n
* Async validator function composed of all the async validators registered with this\n
* directive.\n
*/\n
get: function () {\n
return
composeAsyncValidators(this._rawAsyncValidators);\n
},\n
enumerable: true,\n
configurable:
true\n
});\n
Object.defineProperty(FormControlDirective.prototype, \"control\", {\n
/**\n
*
@description\n
* The `FormControl` bound to this directive.\n
*/\n
get: function () { return
this.form; },\n
enumerable: true,\n
configurable: true\n
});\n
/**\n
* @description\n
* Sets the new value for the view model and emits an `ngModelChange` event.\n
*\n
* @param newValue
The new value for the view model.\n
*/\n
FormControlDirective.prototype.viewToModelUpdate = function
(newValue) {\n
this.viewModel = newValue;\n
this.update.emit(newValue);\n
};\n
FormControlDirective.prototype._isControlChanged = function (changes) {\n
return
changes.hasOwnProperty('form');\n
};\n
var FormControlDirective_1;\n
/**\n
* @description\n
* Static property used to track whether any ngModel warnings have been sent across\n
* all instances of
FormControlDirective. Used to support warning config of \"once\".\n
*\n
* @internal\n
*/\n
FormControlDirective._ngModelWarningSentOnce = false;\n
__decorate([\n
core.Input('formControl'),\n
__metadata(\"design:type\", FormControl)\n
], FormControlDirective.prototype, \"form\", void 0);\n
__decorate([\n
core.Input('disabled'),\n
__metadata(\"design:type\", Boolean),\n
__metadata(\"design:paramtypes\", [Boolean])\n
], FormControlDirective.prototype, \"isDisabled\", null);\n
__decorate([\n
core.Input('ngModel'),\n
__metadata(\"design:type\", Object)\n
],
FormControlDirective.prototype, \"model\", void 0);\n
__decorate([\n
core.Output('ngModelChange'),\n
__metadata(\"design:type\", Object)\n
], FormControlDirective.prototype, \"update\", void 0);\n
FormControlDirective = FormControlDirective_1 = __decorate([\n
core.Directive({ selector: '[formControl]',
providers: [formControlBinding$1], exportAs: 'ngForm' }),\n
__param(0, core.Optional()), __param(0,
core.Self()), __param(0, core.Inject(NG_VALIDATORS)),\n
__param(1, core.Optional()), __param(1,
core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),\n
__param(2, core.Optional()),
__param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),\n
__param(3, core.Optional()),
__param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),\n
__metadata(\"design:paramtypes\", [Array,\n
Array, Array, Object])\n
], FormControlDirective);\n
return FormControlDirective;\n }(NgControl));\n\n /**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n var formDirectiveProvider$1 = {\n
provide:
ControlContainer,\n
useExisting: core.forwardRef(function () { return FormGroupDirective; })\n };\n /**\n
* @description\n *\n * Binds an existing `FormGroup` to a DOM element.\n *\n * This directive accepts
an existing `FormGroup` instance. It will then use this\n * `FormGroup` instance to match any child
`FormControl`, `FormGroup`,\n * and `FormArray` instances to child `FormControlName`, `FormGroupName`,\n
* and `FormArrayName` directives.\n *\n * @see [Reactive Forms Guide](guide/reactive-forms)\n * @see
`AbstractControl`\n *\n * ### Register Form Group\n *\n * The following example registers a
`FormGroup` with first name and last name controls,\n * and listens for the *ngSubmit* event when the button is
clicked.\n *\n * {@example forms/ts/simpleFormGroup/simple_form_group_example.ts
region='Component'}\n *\n * @ngModule ReactiveFormsModule\n * @publicApi\n */\n var
FormGroupDirective = /** @class */ (function (_super) {\n
__extends(FormGroupDirective, _super);\n
function FormGroupDirective(_validators, _asyncValidators) {\n
var _this = _super.call(this) || this;\n
_this._validators = _validators;\n
_this._asyncValidators = _asyncValidators;\n
/**\n
*
@description\n
* Reports whether the form submission has been triggered.\n
*/\n
_this.submitted = false;\n
/**\n
* @description\n
* Tracks the list of added
`FormControlName` instances\n
*/\n
_this.directives = [];\n
/**\n
* @description\n
* Tracks the `FormGroup` bound to this directive.\n
*/\n
_this.form = null;\n
/**\n
*

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**Emits an event when the form submission has been triggered.**

```typescript
_this.ngSubmit = new core.EventEmitter();
return _this;
```

A lifecycle method called when the directive’s inputs change. For internal use only.

```typescript
FormGroupDirective.prototype.ngOnChanges = function (changes) {
  this._checkFormPresent();
  if (changes.hasOwnProperty('form')) {
    this._updateFormContainers();
    this._checkFormValidity();
    this._checkFormValue();
    this._updateRegistrations();
  }
}
```

Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this; },
  enumerable: true,
  configurable: true
});

Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});

Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});

```
FormGroupDirective.prototype.addControl = function (dir) {
  var ctrl = this.form.get(dir.path);
  setUpControl(ctrl, dir);
  ctrl.updateValueAndValidity({ emitEvent: false });
  this.directives.push(dir);
  return ctrl;
}
```

```
FormGroupDirective.prototype.removeControl = function (dir) { removeDir(this.directives, dir); }
```

```
FormGroupDirective.prototype.addFormGroup = function (dir) {
  var ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({ emitEvent: false });
}
```

```
FormGroupDirective.prototype.removeFormGroup = function (dir) { }
```

```
FormGroupDirective.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); }
```

```
FormGroupDirective.prototype.addFormArray = function (dir) {
  var ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({ emitEvent: false });
}
```

```
FormGroupDirective.prototype.removeFormArray = function (dir) { }
```

```
FormGroupDirective.prototype.getFormArray = function (dir) { return this.form.get(dir.path); }
```

```
FormGroupDirective.prototype.updateModel = function (dir, value) {
  var ctrl = this.form.get(dir.path);
  ctrl.setValue(value);
}
```

```
FormGroupDirective.prototype.ngSubmit = new core.EventEmitter();
return _this;
```

```
FormGroupDirective.prototype._checkFormPresent();
```

```
if (changes.hasOwnProperty('form')) {
  this._updateFormContainers();
  this._checkFormValidity();
  this._checkFormValue();
  this._updateRegistrations();
}
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "controlName", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "control", {
  get: function () { return this.form; },
  enumerable: true,
  configurable: true
});
```

```
Object.defineProperty(FormGroupDirective.prototype, "path", {
  get: function () { return []; },
  enumerable: true,
  configurable: true
});
```
"submit" event as its payload.
FormGroupDirective.prototype.onSubmit = function ($event) {
    this.submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit($event);
};//
/** @description Method called when the "reset" event is triggered on the form.
FormGroupDirective.prototype.onReset = function () {
    this.resetForm();
};//
/** @internal */
FormGroupDirective.prototype._updateDomValue = function () {
    var _this = this;
    this.directives.forEach(function (dir) {
        var newCtrl = _this.form.get(dir.path);
        if (dir.control !== newCtrl) {
            cleanUpControl(dir.control, dir);
            if (newCtrl)
                setUpControl(newCtrl, dir);
            dir.control = newCtrl;
        }
    });
    this.form._updateTreeValidity({ emitEvent: false });
};
FormGroupDirective.prototype._updateRegistrations = function () {
    var _this = this;
    this.form._registerOnCollectionChange(function () { return _this._updateDomValue(); });
    if (this._oldForm)
        this._oldForm._registerOnCollectionChange(function () { });
    this._oldForm = this.form;
};
FormGroupDirective.prototype._updateValidators = function () {
    var sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator, sync]);
    var async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, async]);
};
FormGroupDirective.prototype._checkFormPresent = function () {
    if (!this.form)
        ReactiveErrors.missingFormException();
};
FormGroupDirective = __decorate([], FormGroupDirective);
return FormGroupDirective;

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be found in the
 * LICENSE file at https://angular.io/license
 */
formGroupNameProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return FormGroupName; })
};
ReactiveFormsModule

var FormGroupName = /** @class */ (function (_super) {
    __extends(FormGroupName, _super);
    function FormGroupName(parent, validators, asyncValidators) {
        _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }
    FormGroupName.prototype._checkParentType = function () {
        if (_hasInvalidParent(this._parent)) {
            ReactiveErrors.groupParentException();
        }
    };
    FormGroupName = __decorate([core.Input('formGroupName'), __metadata("design:type", Object)], FormGroupName.prototype, "name", void 0);
    FormGroupName = __decorate([core.Directive({ selector: '[formGroupName]', providers: [formGroupNameProvider] })], FormGroupName);
    formArrayNameProvider = { provide: ControlContainer, useExisting: core.forwardRef(function () { return FormArrayName; }) };
    FormArrayName.prototype.ngOnInit = function () {
        this._checkParentType();
        this.formDirective.addFormArray(this);
    };
    FormArrayName.prototype.ngOnDestroy = function () {
        if (this.formDirective) {
            this.formDirective.removeFormArray(this);
        }
    };
    FormArrayName.prototype.control = get(this.formDirective.getFormArray(this));
    FormArrayName.prototype.formDirective = this._parent ? this._parent.formDirective : null;
    FormArrayName.prototype.path = controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    FormArrayName.prototype.validator = composeValidators(this._validators);
    FormArrayName.prototype.asyncValidator = composeAsyncValidators(this._asyncValidators);
    FormArrayName.prototype.ngOnDestroy = function () {
        if (this.formDirective) {
            this.formDirective.removeFormArray(this);
        }
    };
    FormArrayName.prototype.ngOnInit = function () {
        this._checkParentType();
        this.formDirective.addFormArray(this);
    };
    Object.defineProperty(FormArrayName.prototype, "control", {
        get: function () { return this.formDirective.getFormArray(this); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormArrayName.prototype, "formDirective", { get: function () { return this._parent ? this._parent.formDirective : null; }, enumerable: true, configurable: true });
    Object.defineProperty(FormArrayName.prototype, "path", { get: function () { return controlPath(this.name == null ? this.name : this.name.toString(), this._parent); }, enumerable: true, configurable: true });
    Object.defineProperty(FormArrayName.prototype, "validator", { get: function () { return composeValidators(this._validators); }, enumerable: true, configurable: true });
    Object.defineProperty(FormArrayName.prototype, "asyncValidator", { get: function () { return composeAsyncValidators(this._asyncValidators); }, enumerable: true, configurable: true });
});

ReactiveFormsModule
enumerable: true,
 configurable: true
});
 FormArrayName.prototype._checkParentType =
 function ()
 { if (_hasInvalidParent(this._parent))
 ReactErrors.arrayParentException();
 };
 _decorate([
 core.Input('formArrayName'),
 _metadata('design:type',
 Object)
 ], FormArrayName.prototype, '_name', void 0);
 FormArrayName = _decorate([
 core.Directive({
 selector: ['formArrayName'],
 providers: [FormArrayNameProvider] }),
 ]
 _param(0,
 core.Optional()),
 _param(0, core.Host()),
 _param(0, core.SkipSelf()),
 _param(1, core.Optional()),
 _param(1, core.SkipSelf()),
 _param(1, core.Inject(NG_VALIDATORS)),
 _param(2, core.Optional()),
 _param(2, core.SkipSelf()),
 _param(2, core.Inject(NG_ASYNC_VALIDATORS)),
 _metadata('design:paramtypes', [ControlContainer, Array, Array]
 ], FormArrayName);
 return FormArrayName;
 };
 function _hasInvalidParent(parent) {
 return !(parent instanceof FormGroupName) &&
 !(parent instanceof FormGroupDirective) &&
 !(parent instanceof FormArrayName);
 };

 /**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
 controlNameBinding = {
 provide: NgControl,
 useExisting:
 core.forwardRef(function () { return FormControlName; })
 };

 /**
 * @description
 * Syncs a
 FormControl in an existing `FormGroup` to a form control
 * element by name.
 */
 * @usageNotes
 *
 * ### Register `FormControl` within a group
 *
 * The following example shows
 * how to register multiple form controls within a group and set their value:
 * @example
 *
 * This has been deprecated for a few reasons. First, developers have found this
 * pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's
 * an input/output property named `ngModel` on the reactive form
 * directive that simply approximates (some of) its behavior. Specifically, it allows getting/settin
 * the value or intercepting value events. However, some of
 * `ngModel`'s other features - like
 * delaying updates with `ngModelOptions` or exporting the directive - simply
 * don't work,
 * which has understandably caused some confusion.
 * In addition, this pattern mixes template-driven and reactive forms strategies, which
 * we generally don't recommend because it doesn't take advantage of the full benefits of
 * either strategy. Setting the value in the template violates the template-
 * agnostic
 * principles behind reactive forms, whereas adding a FormControl/FormGroup layer in
 * the class removes the convenience of defining forms in the template.
 * To update your code before support is removed, you'll want to decide whether to stick with
 * reactive form directives (and get/set values using reactive forms patterns) or switch over to
 * template-driven directives.
 * After (choice 1 - use reactive forms):
 * * This has been deprecated for a few reasons. First, developers have found this
 * pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's
 * an input/output property named `ngModel` on the reactive form
 * directive that simply approximates (some of) its behavior. Specifically, it allows getting/settin
 * the value or intercepting value events. However, some of
 * `ngModel`'s other features - like
 * delaying updates with `ngModelOptions` or exporting the directive - simply
 * don't work,
 * which has understandably caused some confusion.
 * In addition, this pattern mixes template-driven and reactive forms strategies, which
 * we generally don't recommend because it doesn't take advantage of the full benefits of
 * either strategy. Setting the value in the template violates the template-
 * agnostic
 * principles behind reactive forms, whereas adding a FormControl/FormGroup layer in
 * the class removes the convenience of defining forms in the template.
 * To update your code before support is removed, you'll want to decide whether to stick with
 * reactive form directives (and get/set values using reactive forms patterns) or switch over to
 * template-driven directives.
 * After (choice 1 - use reactive forms):
 * * * * * ```html
 * <form [formGroup]='form'>
 * ```
 * * * * After (choice 2 - use template-driven forms):
 * * * * ```html
 * <input [(ngModel)]='value'>
 * ```
 * * * * By default, when you use this pattern, you will see a
 * depression warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * `ReactiveFormsModule` at import time.
 * * * * * ```html
 * ```
 * * * * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value of `\"always\"`. This may help to track down where in the code
 * the pattern is being used as the code is being updated.
 * * * * ```html
 * ```
 * * * * Open Source Used In MSX Platform Services 4.0.0 6393
FormControlName = /** @class */ (function (_super) {
    __extends(FormControlName, _super);
    function FormControlName(parent, validators, asyncValidators, valueAccessors, _ngModelWarningConfig) {
        var _this = _super.call(this) || this;
        _this._ngModelWarningConfig = _ngModelWarningConfig;
        _this._added = false;
        /** @deprecated as of v6 */
        _this.update = new core.EventEmitter();
        /**
         * @description
         * Instance property used to track whether an ngModel warning has been sent out for this
         * particular FormControlName instance. Used to support warning config of "always".
         */
        _this._ngModelWarningSent = false;
        _this._parent = parent;
        _this._rawValidators = validators || []; _this._rawAsyncValidators = asyncValidators || []; _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
        return _this;
    }
    FormControlName_1 = FormControlName;
    Object.defineProperty(FormControlName.prototype, "isDisabled", {
        /**
         * @description
         * Triggers a warning that this input should not be used with reactive forms.
         */
        set: function (isDisabled) { ReactiveErrors.disabledAttrWarning(); },
        enumerable: true,
        configurable: true
    });
    FormControlName.prototype.ngOnChanges = function (changes) {
        if (!this._added)
            this._setUpControl();
        if (isPropertyUpdated(changes, this.viewModel)) {
            _ngModelWarning('formControlName', FormControlName_1, this, this._ngModelWarningConfig);
            this.viewModel = this.model;
            this.formDirective.updateModel(this, this.model);
        }
    };
    FormControlName.prototype.ngOnDestroy = function () {
        if (this.formDirective)
            this.formDirective.removeControl(this);
    };
    FormControlName.prototype.viewToModelUpdate = function (newValue) {
        this.viewModel = newValue;
        this.update.emit(newValue);
    };
    FormControlName.prototype._checkParentType = function () {
        if (!(this._parent instanceof FormGroupName) && this._parent instanceof AbstractFormGroupDirective)
            ReactiveErrors.ngModelGroupException();
        else if
            !(this._parent instanceof FormGroupName) && !(this._parent instanceof FormGroupDirective) &&
            !(this._parent instanceof FormArrayName)
                ReactiveErrors.controlParentException();
        var FormControlName_1 = FormControlName;
        Object.defineProperty(FormControlName.prototype, "path", {
            /**
             * @description
             * Returns an array that represents the path from the top-level form to this control.
             * Each index is the string name of the control on that level.
             */
            get: function () {
                return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormControlName.prototype, "formDirective", {
            /**
             * The top-level directive that this directive or group is registered with.
             */
            get: function () {
                return this._parent._formDirective; 
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormControlName.prototype, "validator", {
            /**
             * Synchronous validator function composed of all the synchronous validators
             */
            get: function () {
                return composeValidators(this._rawValidators);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormControlName.prototype, "asyncValidator", {
            /**
             * Async validator function composed of all the async validators registered with this
             */
            get: function () {
                return composeAsyncValidators(this._rawAsyncValidators);
            },
            enumerable: true,
            configurable: true
        });
        this.formDirective.addControl(this);
        if (this.control.disabled && this.valueAccessor.setDisabledState)
            this.valueAccessor.setDisabledState(true);
        this._added = true;
        var FormControlName_1 = FormControlName;
property used to track whether any ngModel warnings have been sent across all instances of FormControlName. Used to support warning config of \`\`once\`\`.

```javascript
FormControlName._ngModelWarningSentOnce = false;
```

__decorate__(
    [
        core.Input('formControlName'),
        __metadata("design:type", Object)
    ], FormControlName.prototype, "name", void 0);

__decorate__(
    [
        core.Input('disabled'),
        __metadata("design:type", Boolean),
        __metadata("design:paramtypes", [Boolean])
    ], FormControlName.prototype, "isDisabled", null);

__decorate__(
    [
        core.Input('ngModel'),
        __metadata("design:type", Object)
    ], FormControlName.prototype, "model", void 0);

__decorate__(
    [
        core.Output('ngModelChange'),
        __metadata("design:type", Object)
    ], FormControlName.prototype, "update", void 0);

FormControlName = FormControlName_1 = __decorate__(
    [
        core.Directive({
            selector: '[formControlName]', providers: [controlNameBinding] }
        ),
    [
        param(0, core.Optional()),
        param(0, core.Host()),
        param(0, core.SkipSelf()),
        param(1, core.Self()),
        param(2, core.Inject(NG_VALIDATORS)),
        param(2, core.Self()),
        param(2, core.Inject(NG_ASYNC_VALIDATORS)),
        param(3, core.Optional()),
        param(3, core.Self()),
        param(3, core.Inject(NG_VALUE_ACCESSOR)),
        param(4, core.Optional()),
        param(4, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),
    ],
)(NgControl));

/**
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 * be found in the LICENSE file at https://angular.io/license
 */

/**
 * @description
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */

var REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return RequiredValidator; }),
    multi: true
};

/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */

var CHECKBOX_REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return CheckboxRequiredValidator; }),
    multi: true
};

/**
 * A directive that adds the `required` validator to any controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */

var RequiredValidator = /** @class */ (function () {
    function RequiredValidator() {
    }

    Object.defineProperty(RequiredValidator.prototype, "required", {
        /**
         * Tracks changes to the required attribute bound to this directive.
         */
        get: function () { return this._required; },
        set: function (value) {
            this._required = value != null && value !== false && "" + value !== 'false';
            if (this._onChange)
                this._onChange();
        },
        enumerable: true,
        configurable: true
    });

    RequiredValidator.prototype.validate = function (control) {
        return this.required ? Validators.required(control) : null;
    };

    RequiredValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn;
    };

    RequiredValidator = __decorate__(
        [
            core.Input(),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], RequiredValidator.prototype, "required", null);

    RequiredValidator = __decorate__(
        [
            core.Directive({
                selector: ':not([type=checkbox])\[required\][formControlName],
                providers: [REQUIRED_VALIDATOR],
                host: { [attr.required]:'required ? \"\" : null' }
            }),
            core.Input(ngModel),
            __metadata("design:type", Void),
            __metadata("design:paramtypes", [FormControlName], Object)
        ],
        RequiredValidator.prototype, "required\", null);

    RequiredValidator = __decorate__(
        [
            core.Directive({
                selector: 'not([type=checkbox])\[required\][formControlName],
                providers: [REQUIRED_VALIDATOR],
                host: { [attr.required]:'required ? \"\" : null' }
            }),
            core.Input(ngModel),
            __metadata("design:type", Void),
            __metadata("design:paramtypes", [FormControlName], Object)
        ],
        RequiredValidator.prototype, "required\", null);

    RequiredValidator = __decorate__(
        [
            core.Directive({
                selector: 'not([type=checkbox])\[required\][formControlName],
                providers: [REQUIRED_VALIDATOR],
                host: { [attr.required]:'required ? \"\" : null' }
            }),
            core.Input(ngModel),
            __metadata("design:type", Void),
            __metadata("design:paramtypes", [FormControlName], Object)
        ],
        RequiredValidator.prototype, "required\", null);

    RequiredValidator = __decorate__(
        [
            core.Directive({
                selector: 'not([type=checkbox])\[required\][formControlName],
                providers: [REQUIRED_VALIDATOR],
                host: { [attr.required]:'required ? \"\" : null' }
            }),
            core.Input(ngModel),
            __metadata("design:type", Void),
            __metadata("design:paramtypes", [FormControlName], Object)
        ],
        RequiredValidator.prototype, "required\", null);
* A Directive that adds the `required` validator to checkbox controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

```typescript
@Directive({
    selector: '[required][formControlName],[required][formControl],[required][ngModel]',
    providers: [CHECKBOX_REQUIRED_VALIDATOR],
    host: {
        '[attr.required]': 'required ? "" : null
    }
})
@Pipe({
    name: 'required',
    pure: true
})
@Host({
    '[attr.required]': 'required ? "" : null
})
@Input()
```

Method that validates whether or not the checkbox has been checked.

```typescript
* Returns the validation result if enabled, otherwise null.
```

```typescript
return this.required ? Validators.requiredTrue(control) : null;
```

* The following example shows how to add a checkbox required validator to an input attached to an ngModel binding.

```typescript
<input type="checkbox" name="active" ngModel required>
```

* @publicApi
* @ngModule FormsModule
* @ngModule ReactiveFormsModule
```typescript
*/
```

```typescript
** EMAIL_VALIDATOR = {
  provide: NG_VALIDATORS,
  useExisting: core.forwardRef(function () { return EmailValidator; }),
  multi: true
};
**
```

```typescript
@Directive({
    selector: 'input[formControlName],input[formControl],input[ngModel]',
    providers: [EMAIL_VALIDATOR],
    host: {
        '[attr.email]': 'true
    }
})
@Pipe({
    name: 'email',
    pure: true
})
@Host({
    '[attr.email]': 'true
})
```
```html
  * <input name="firstName" ngModel minlength="4"/>
  * ```

@ngModule
ReactiveFormsModule
* @ngModule FormsModule
* @publicApi
var MinLengthValidator = /** @class */ (function () {
  function MinLengthValidator() {
  }
  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  MinLengthValidator.prototype.ngOnChanges = function (changes) {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange)
        this._onChange();
    }
  };
  /**
   * Method that validates whether the value meets a minimum length requirement. Returns the validation result if enabled, otherwise null.
   */
  MinLengthValidator.prototype.validate = function (control) {
    return this.minlength == null ? null : 
      this._validator(control);
  };
  /**
   * Registers a callback function to call when the validator inputs change.
   */
  MinLengthValidator.prototype.registerOnValidatorChange = function (fn) {
    this._onChange = fn;
  };
  MinLengthValidator.prototype._createValidator = function () {
    this._validator = Validators.minLength(typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  };
  __decorate([core.Input()], MinLengthValidator.prototype, "minlength", void 0);
  MinLengthValidator = __decorate([core.Directive({
      selector: '[minlength][formControlName],[minlength][formControl],[minlength][ngModel]',
      providers: [
        { provide: MIN_LENGTH_VALIDATOR },
        host: { '[attr.minlength]': 'minlength ? minlength : null' }
      ]
    }], MinLengthValidator);
    return MinLengthValidator;
  }());

MAX_LENGTH_VALIDATOR = { provide: NG_VALIDATORS, useExisting: core.forwardRef(function () { return MaxLengthValidator; }) },
  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   */
  MaxLengthValidator.prototype.ngOnChanges = function (changes) {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange)
        this._onChange();
    }
  };
  /**
   * Method that validates whether the value exceeds the maximum length requirement.
   */
  MaxLengthValidator.prototype.validate = function (control) {
    return this.maxlength != null ? this._validator(control) : null;
  };
  /**
   * A directive that adds max length validation to controls marked with the
   * 'maxlength' attribute. The directive is provided with the
   * 'NG_VALIDATORS' multi-provider list.
   */
  var MaxLengthValidator = { provide: NG_VALIDATORS, useExisting: core.forwardRef(function () { return MaxLengthValidator; }) },
  /**
   * Adding a maximum length validator to an input attached to an
   */
  MaxLengthValidator.prototype.ngOnChanges = function (changes) {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange)
        this._onChange();
    }
  };
  /**
   * Registers a callback function to call when the validator inputs change.
   */
  MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) {
    this._onChange = fn;
  };
  MaxLengthValidator.prototype._createValidator = function () {
    this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  };
  __decorate([core.Input()], MaxLengthValidator.prototype, "maxlength", void 0);
  MaxLengthValidator = __decorate([core.Directive({
      selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
      providers: [
        { provide: MAX_LENGTH_VALIDATOR },
        host: { '[attr.maxlength]': 'maxlength ? maxlength : null' }
      ]
    }], MaxLengthValidator);
    return MaxLengthValidator;
  }();
```
Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.

```
PATTERN_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return PatternValidator; }),
    multi: true,
};//
/**
 * A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @see [Form Validation](guide/form-validation)
 */
    var PATTERN_VALIDATOR = {
        provide: NG_VALIDATORS,
        useExisting: core.forwardRef(function () { return PatternValidator; }),
        multi: true
    };

    /**
     * @description
     * A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.
     * @see [Form Validation](guide/form-validation)
     */
    var PatternValidator = /** @class */ (function () {
        function PatternValidator() {
        }
        /**
         * A lifecycle method called when the directive's inputs change. For internal use only.
         *
         * @param changes A object of key/value pairs for the set of changed inputs.
         */
        PatternValidator.prototype.ngOnChanges = function (changes) {
            if ('pattern' in changes) {
                this._createValidator();
                if (this._onChange)
                    this._onChange();
            }
        };
        /**
         * Method that validates whether the value matches the pattern requirement.
         */
        PatternValidator.prototype.validate = function (control) { return
            this._validator(control); }
        /**
         * Registers a callback function to call when the validator inputs change.
         *
         * @param fn The callback function
         */
        PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
        PatternValidator.prototype._createValidator = function () { this._validator = Validators.pattern(this.pattern); };
        __decorate([core.Input()], PatternValidator.prototype, "pattern", void 0);
        PatternValidator.prototype._decorate=function (control)
        {
            return
            new core.Directive({
                selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]
            }, providers:
            [PATTERN_VALIDATOR],
            host: { [attr.pattern]: 'pattern ? pattern : null' }
            });
        PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
        PatternValidator.prototype.validate = function (control) { return
            this._validator(control); }
        /**
         * Method that validates whether the value matches the pattern requirement.
         */
        PatternValidator.prototype.validate = function (control) { return
            this._validator(control); }
        /**
         * Registers a callback function to call when the validator inputs change.
         *
         * @param fn The callback function
         */
        PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
    }());

    var SHARED_FORM_DIRECTIVES = [NgNoValidate, NgSelectOption, NgSelectMultipleOption, DefaultValueAccessor, NumberValueAccessor, RangeValueAccessor, CheckboxControlValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor, NgControlStatus, NgControlStatusGroup, RequiredValidator, MinLengthValidator, MaxLengthValidator, PatternValidator, CheckboxRequiredValidator, EmailValidator ];

    var TEMPLATE_DRIVEN_DIRECTIVES = [NgModel, NgModelGroup, NgForm ];

    var REACTIVE_DRIVEN_DIRECTIVES = [FormGroupDirective, FormGroupDirective, FormControlName, FormArrayName ];

    /*
     * Use of this source code is governed by an MIT-style license that can be found in the
     * LICENSE file at https://angular.io/license
     */
    function isAbstractControlOptions(options) {
        return
            options.asyncValidators !== undefined ||
            options.validators !== undefined ||
            options.updateOn !== undefined;
    }

    /*
     * Creates an `AbstractControl` from a user-specified configuration.
     * The `FormBuilder` provides syntactic sugar that shortens creating instances of a
     * `FormControl`, `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
     * forms.
     */
    var FormBuilder = /** @class */ (function () {
        function FormBuilder() {
        }
        /**
         * Creates an `AbstractControl` from a user-specified configuration.
         * The `FormBuilder` provides syntactic sugar that shortens creating instances of a
         * `FormControl`, `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
         */
        FormBuilder = __decorate([core.NgModule({
                declarations: SHARED_FORM_DIRECTIVES,
                exports:
                SHARED_FORM_DIRECTIVES,
            })], FormBuilder);
**Open Source Used In MSX Platform Services 4.0.0**

```typescript
/**
 * @license
 */

export const FormBuilder = Injectable();

/**
 * @description
 * Construct a new `FormBuilder` instance. The key for each child is the name under which it is registered.
 * @param controlsConfig A collection of child controls. The object can have two shapes:
 * 1) `AbstractControlOptions` object (preferred), which consists of:
 *  * `validators`: A synchronous validator function, or an array of validator functions
 *  * `asyncValidators`: A single async validator or array of async validator functions
 *  * `updateOn`: The event upon which the control should be updated (options: `change` | `blur` | `submit`) 
 * 2) Legacy configuration object, which consists of:
 *  * `validator`: A synchronous validator function, or an array of validator functions
 *  * `asyncValidator`: A single async validator or array of async validator functions

FormBuilder.prototype.group = function (controlsConfig, options) {
    if (options === void 0) { options = null; }
    var controls = this._reduceControls(controlsConfig);
    var validators = this._createValidators(controls, options.validators);
    var asyncValidators = options.asyncValidators ? options.asyncValidators : null;
    var updateOn = options.updateOn != null
        ? options.updateOn : undefined;
    return new FormGroup(controls, { asyncValidators: asyncValidators, updateOn: updateOn, validators: validators });
};

FormBuilder.prototype.array = function (controlsConfig, options) {
    if (options == null; )
        var controls = this._reduceControls(controlsConfig);
    var validators = this._createValidators(controls, options.validators);
    var asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
    var updateOn = options.updateOn != null
        ? options.updateOn : undefined;
    return new FormArray(controls, validatorOrOpts, asyncValidator);
};

FormBuilder.prototype.control = function (formState, validatorOrOpts, asyncValidator) {
    return new FormControl(formState, validatorOrOpts, asyncValidator);
};

FormBuilder.prototype.disabledControl = function (formState, options) {
    return new FormControl(formState, options.validators || options['validator'] || options['validator'][0], options['validator'][1], options['validator'][2] ? options['validator'][2] : null);
};
```
import { FormsModule } from '@angular/forms';

/**
 * Exports the required providers and directives for template-driven forms,
 * making them available for import by NgModules that import this module.
 * @see [Forms Guide](/guide/forms)
 * @publicApi
 */
export class FormsModule {

    /**
     * @description
     * Provides options for configuring the reactive forms module.
     *
     * @param opts An object of configuration options
     * * `warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel`
     * binding is used with reactive form directives.
     */
    withConfig = function (opts) {
        return {
            ngModule: this,
            providers: [{
                provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
                useValue: opts.warnOnNgModelWithFormControl
            }]
        };
    }

    static ngModuleOptions = {
        declarations: TEMPLATE_DRIVEN_DIRECTIVES,
        providers: [
            RadioControlRegistry,
            RadioControlInterface
        ],
        exports: [
            InternalFormsSharedModule,
            TEMPLATE_DRIVEN_DIRECTIVES
        ]
    };

    get declarations() {
        return TEMPLATE_DRIVEN_DIRECTIVES;
    }

    get providers() {
        return [
            RadioControlRegistry
        ];
    }

    get exports() {
        return [
            InternalFormsSharedModule
        ];
    }
}

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 * @see [Forms](guide/reactive-forms)
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 * @publicApi
 */
export class ReactiveFormsModule {

    static withConfig = function (opts) {
        return {
            ngModule: this,
            providers: [
                FormBuilder,
                RadioControlRegistry
            ],
            exports: [
                InternalFormsSharedModule,
                REACTIVE_DRIVEN_DIRECTIVES
            ]
        };
    }

    get declarations() {
        return REACTIVE_DRIVEN_DIRECTIVES;
    }

    get providers() {
        return [
            FormBuilder,
            RadioControlRegistry
        ];
    }

    get exports() {
        return [
            InternalFormsSharedModule
        ];
    }
}

/**
 * Generated bundle index. Do not edit.
 */
exports.AbstractControl = AbstractControl;
exports.COMPOSITION_BUFFER_MODE = COMPOSITION_BUFFER_MODE;
exports.CheckboxControlValueAccessor = CheckboxControlValueAccessor;
exports.CheckboxRequiredValidator = CheckboxRequiredValidator;
exports.ControlContainer = ControlContainer;
exports.DefaultValueAccessor = DefaultValueAccessor;
exports.EmailValidator = EmailValidator;
exports.FormArray = FormArray;
exports.FormArrayName = FormArrayName;
exports FormBuilder = FormBuilder;
exports.FormControl = FormControl;
exports.FormControlDirective = FormControlDirective;
exports.FormControlName = FormControlName;
exports.FormGroup = FormGroup;
exports.FormGroupDirective = FormGroupDirective;
exports.FormGroupName = FormGroupName;
exports.FormsModule = FormsModule;
exports.MaxLengthValidator = MaxLengthValidator;
exports.MinLengthValidator = MinLengthValidator;
exports.NG_ASYNC_VALIDATORS = NG_ASYNC_VALIDATORS;
exports.NG_VALIDATORS = NG_VALIDATORS;
exports.NG_VALUE_ACCESSOR = NG_VALUE_ACCESSOR;
exports.NgControl = NgControl;
exports.NgControlStatus = NgControlStatus;
exports.NgControlStatusGroup =
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```ts
setDisabledState(isDisabled: boolean): void {
   *
   * ```
   *
   * appropriate DOM element.
   *
   * @usageNotes
   * The following is an example of writing the disabled control status changes to
   * or from 'DISABLED'. Depending on the status, it enables or disables the
   *
   * ```
   *
   * @param fn The callback function to register
   */

  /**
   * @description
   * Function that is called by the forms API when
   * ```
   * ```
   *
   * @param fn The callback function to register
   */
```
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);  
} 

/**
   * @param isDisabled The disabled status to set on the element
   */

setDisabledState(isDisabled: boolean): void;  

/**
   * Used to provide a `ControlValueAccessor` for form controls.
   */

setDisabledState(isDisabled: boolean): void;  

/**
   * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input element.
   */

setDisabledState(isDisabled: boolean): void;  

/**
   * Sets the "checked" property on the input element.
   */

setDisabledState(isDisabled: boolean): void;  

/**
   * Registers a function called when the control value changes.
   */

registerOnChange(fn: (_: any) => {}): void;  

/**
   * Registers a function called when the control is touched.
   */

registerOnTouched(fn: () => {}): void;  

/**
   * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input element.
   */

setDisabledState(isDisabled: boolean): void;  

/**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */

onChange = (_: any) => {};

/**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */

onTouched = () => {};

/**
   * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
   */

defaultValueAccessor = new ControlValueAccessor();

/**
   * @description
   * Provide this token to control if form directives buffer IME input until `\'\'\'compositionend\'\'` event occurs.
   */

CompositionEventMode = new InjectionToken<CompositionEventMode>('-\'\'\'\'CompositionEventMode\'\'\'\'');

/**
   * @description
   * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
   */

defaultValueAccessor = new ControlValueAccessor();

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   * @description
   * The default `ControlValueAccessor` for writing a value and listening to changes on input elements.
   */

defaultValueAccessor = new ControlValueAccesso...
FormsModule
 * @publicApi
 */
@Directive({
  selector:

'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl]
ol,textarea[formControl],input:not([type=checkbox])][ngModel],textarea[ngModel],[ngDefaultControl]',

providers: [DEFAULT_VALUE_ACCESSOR]
})
export class DefaultValueAccessor implements

}`

/**
 * @description
 * The registered callback function called when a blur event occurs on the input element.
 */
  onTouched = () => {};

  /**
   * Sets the "value" property on the input element.
   *
   * @param value The checked value
   */
  writeValue(value: any): void {
    const
    value = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn; }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void { this.onTouched = fn; }

  /**
   * Sets the "disabled" property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing))

      this.onChange(value);
    }

  /** @internal */
  _compositionStart(): void { this._composing = true;

    this._compositionMode && this.onChange(value);
  }

  /** @internal */
  _compositionEnd(value: any): void {
    this._composing = false;

    this._compositionMode && this.onChange(value);
  }

  /**
   * Reports the value of the control if it is present, otherwise null.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get value(): any { return this.control ? this.control.value : null;

    }

  /**
   * Reports whether a control is pending, meaning that async validation is occurring and
   * errors are not yet available for the input value. If the control is not present, null is
   * returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get pending(): boolean|null {
    return this.control ? this.control.valid : null;

    }

  /**
   * Reports whether the control is invalid, meaning that an error exists in the input value.
   * If the control is not present, null is returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get invalid(): boolean|null {
    return this.control ? this.control.invalid : null;

    }

  /**
   * Reports whether a control is pending, meaning that async validation is occurring and
   * errors are not yet available for the input value. If the control is not present, null is
   * returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get pending(): boolean|null {
    return this.control ? this.control.pending : null;

    }

  /**
   * Reports whether the control is disabled, meaning that the control is disabled
   * in the UI and is exempt from validation checks and excluded from aggregate
   * values of ancestor controls. If the control is not present, null is returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get disabled(): boolean|null {
    return this.control ? this.control.disabled : null;

    }

  /**
   * Reports whether the control is valid. A control is considered valid if no
   * validation errors exist with the current value.
   */
  get valid(): boolean|null {
    return this.control ? this.control.valid : null;

    }

  /**
   * Reports whether the control is valid. A control is considered valid if no
   * validation errors exist with the current value.
   */
  get invalid(): boolean|null {
    return this.control ? this.control.invalid : null;

    }

  /**
   * Reports whether a control is pending, meaning that async validation is occurring and
   * errors are not yet available for the input value. If the control is not present, null is
   * returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get pending(): boolean|null {
    return this.control ? this.control.pending : null;

    }

  /**
   * Reports whether the control is disabled, meaning that the control is disabled
   * in the UI and is exempt from validation checks and excluded from aggregate
   * values of ancestor controls. If the control is not present, null is returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get disabled(): boolean|null {
    return this.control ? this.control.disabled : null;

    }

  /**
   * Reports whether the control is valid. A control is considered valid if no
   * validation errors exist with the current value.
   */
  get valid(): boolean|null {
    return this.control ? this.control.valid : null;

    }

  /**
   * Reports whether a control is pending, meaning that async validation is occurring and
   * errors are not yet available for the input value. If the control is not present, null is
   * returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get pending(): boolean|null {
    return this.control ? this.control.pending : null;

    }

  /**
   * Reports whether the control is disabled, meaning that the control is disabled
   * in the UI and is exempt from validation checks and excluded from aggregate
   * values of ancestor controls. If the control is not present, null is returned.
   * @returns the value that backs this directive. Most properties fall through to that
   * instance.
   */
  get disabled(): boolean|null {
    return this.control ? this.control.disabled : null;

    }
Directive automatically applied to Angular form groups that sets CSS classes based on control status (valid/invalid/dirty/empty) of the control.

@see `NgControlStatus`

* @ngModule ReactiveFormsModule
* @ngModule FormsModule
* @publicApi
* @directive

```typescript
@Directive({
  selector: '[formGroupName],[formArrayName],[formGroupName],form:not([ngNoForm]),[ngForm],
  host: NgControlStatusHost},
})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}
```

**LICENSE**

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returns an error map with the
`min` property if the validation check fails, otherwise `null`.

`* @see `updateValueAndValidity()``

`* @align static(min: number): ValidatorFn`:

`return` (control: AbstractControl): ValidationErrors | null => {
    `if` (isEmptyInputValue(control.value))
    `const` value = parseFloat(control.value);
    // Controls with NaN values after parsing should be treated as not
    having `an` // minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
    `return` `!isNaN(value) && value < min` ? `{'min': {'min': min, 'actual': control.value}}` : `null;
  `}

  `* @description
* Validator that requires the control's value to be less than or equal to the provided number.`

  `* The validator exists only as a function and not as a directive.`

  `* @usageNotes
  * @see `updateValueAndValidity()`
  * const control = new FormControl(16, Validators.max(15));
  `* console.log(control.errors); // {max: [max: 15, actual: 16]}
  `* @returns A validator function that
  returns an error map with the
  `max` property if the validation check fails, otherwise `null`.

  `* @description
  * Validator that requires the control have a non-empty value.

  `* The validator exists only as a function and not as a directive.`

  `* @usageNotes
  * @see `updateValueAndValidity()`
  * const control = new FormControl(''

  `* Validators.required);
  `* @returns An error map with the `required` property
  if the validation check fails, otherwise `null`.

  `* @description
  * Validator that requires the control's value pass an email validation test.

  `* Tests the value using a [regular
  pattern suitable for common usecases. The pattern is based on the definition of a valid email
  address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)
  with some enhancements to incorporate more RFC rules (such as rules related to domain names and
  the lengths of different parts of the address). `* - Disallow local-part (the part before the @ symbol) to begin or end with a period (.).
  `* - Disallow ’local-part’ to be longer than 64 characters.
  `* - Disallow the whole address to be longer than 254 characters.`

  `* If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to
  validate the value against a different pattern.

  `* @usageNotes
  * @see `updateValueAndValidity()`
  * const control = new FormControl('bad@', Validators.email);
  `* @returns An error map that contains the ’required’ property
  * set to ’true’ if the validation check fails, otherwise ’null’.

  `* @description
  * Validator that requires the length of the control's value
  to be greater than or equal to the provided number.`

  `* if the validation check fails, otherwise ’null’.

  `* @description
  * Validator that requires the length of the control's value
  to be greater than or equal to the provided number.

  `* if the validation check fails, otherwise ’null’.

  `* @description
  * Validator that requires the length of the control's value
  to be greater than or equal to the provided number.

  `* if the validation check fails, otherwise ’null’.

  `* @description
  * Validator that requires the length of the control's value
  to be greater than or equal to the provided number.
returns an error map with the *minlength* property if the validation check fails, otherwise *null*.

```html
<input minlength="5">
```

```typescript
const control = new FormControl('1', Validators.minLength(3));
```

```html
<input minlength="5">
```

```typescript
const control = new FormControl('Angular', Validators.pattern('[a-zA-Z \*]*'));
```

```html
<input pattern="\[a-zA-Z \*]*">
```

### Validate that the field only contains letters or spaces

`pattern` attribute.

```typescript
control.value = 'Angular';
```

```html
<input pattern="[a-zA-Z\*\s]*">
```

### Validate that the field has maximum of 5 characters

HTML5 `maxlength` attribute.

```html
<input pattern="\[a-zA-Z \*]*">
```

```typescript
const control = new FormControl('1', Validators.pattern('^[a-zA-Z \*]*$'));
```

### Validate that the field has maximum of 5 characters

HTML5 `pattern` attribute.

```html
<input pattern="\[a-zA-Z \*]*$">
```

### Validate that the field has maximum of 5 characters

HTML5 `pattern` attribute.

```html
<input pattern="^[a-zA-Z \*]*$">
```

### Validate that the field has maximum of 5 characters

HTML5 `pattern` attribute.

```html
<input pattern="^[a-zA-Z \*]*$">
```

### Validate that the field has maximum of 5 characters

HTML5 `pattern` attribute.

```html
<input pattern="^[a-zA-Z \*]*$">
```
```javascript
/**
 * @description
 * Registers a function called when the control is touched.
 */

/**
 * @description
 * The callback function.
 */

/**
 * @description
 * Sets the "disabled" property on the input element.
 */

/**
 * @description
 * The disabled value.
 */

/**
 * @description
 * The disabledState(isDisabled: boolean).
 */

/**
 * @description
 * The "checked" property.
 */

/**
 * @description
 * The "disabled" property.
 */

/**
 * @description
 * A lifecycle method called when the directive is initialized. For internal use only.
 */

/**
 * @description
 * A lifecycle method called before the directive's instance is destroyed. For internal use only.
 */

/**
 * @description
 * Track the name of the 'FormControl' bound to the directive.
 */

/**
 * @description
 * Track the name of the radio input element.
 */

/**
 * @description
 * Track the value of the radio input element.
 */

/**
 * @description
 * Track the value of the radio input element.
 */
```
value on the radio input element.

```typescript
/**
 * @description
 * Registers a function called when the control value changes.
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In your class:

```typescript
this.myGroup = new FormGroup({
   person: new FormGroup({ firstName: new FormControl() })
});
```

```typescript
In your class:

this.cityArray = new FormArray([new FormControl('SF')]);
this.myGroup = new FormGroup({
   cities: this.cityArray
});
```

```typescript
In your class:

form = new FormGroup({
   first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
   last: new FormControl('Drew', Validators.required)
});
```

```typescript
In your class:

this.myGroup = new FormGroup({
   person: new FormGroup({ firstName: new FormControl() })
});
```

```typescript
var form = new FormGroup({
   person: new FormGroup({ firstName: new FormControl() })
});
```

```typescript
var form = new FormGroup({
   person: new FormGroup({ firstName: new FormControl() })
});
```

```typescript
In your class:

form = new FormGroup({
   person: new FormGroup({ firstName: new FormControl() })
});
```

```typescript
In your class:

this.myGroup = new FormGroup({
   person: new FormGroup({ firstName: new FormControl() })
});
```
values and listening to select control
* changes. The value accessor is used by the `FormControlDirective`,
`FormControlName`, and * `NgModel` directives. The following examples show how to use a select control in a reactive form.

### Using select controls in a reactive form

```typescript
@Directive({
  selector: 'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]',
  host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},
  providers: [SELECT_VALUE_ACCESSOR]
})
export class SelectControlValueAccessor implements
ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();
  /** @internal */
  _idCounter: number = 0;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the option comparison algorithm for tracking identities when checking for changes.
   * @param fn The callback function
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   * @param fn The callback function
   */
  registerOnTouched(fn: () => any): void { this.onTouched = fn; }

  /** @internal */
  _registerOption(): string { return (this._idCounter++).toString();

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id), value)) return id;
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    return this._optionMap.get(this._getOptionId(valueString));
  }

  /**
   * Sets the "value" property on the input element. The \"selectedIndex\" property is also set if an ID is provided on the option element. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.
   * To customize the default option comparison algorithm, `compareWith` supports `compareWith` input.
   * `compareWith` takes a **function** which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects option by the return value of the function.
   */
  @Input()
  set compareWith(fn: (o1: any, o2: any) => boolean) {
    if (typeof fn !== 'function') {
      throw new Error(`compareWith must be a function, but received
      ${JSON.stringify(fn)}`);
    }
    this._compareWith = fn;
  }

  /**
   * @description
   * Triggers the select control's change event.
   */
  writeValue(value: any): void {
    this.value = value;
    const id = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString = _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }

  /**
   * @description
   * Sets the "disabled" property on the select input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}
```
import {Directive, ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectMultipleControlValueAccessor),
  multi: true
};

function _buildValueString(id: string, value: any): string {
  if (id == null) return `${value}`;
  if (typeof value === 'string') value = `'${value}'`;
  if (value && typeof value === 'object') value = 'Object';
  return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':') [0];
}

/** Mock interface for HTML Options */
interface HTMLOption {
  value: string;
  selected: boolean;
}

/** Mock interface for HTMLCollection */
abstract class HTMLCollection {
  length!: number;
  item!: (number) => HTMLOption;
}

/**
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
 * control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 * 
 * @see `SelectControlValueAccessor`
 * @usageNotes
 * 
 * ### Using a multi-select control
 * 
 * The follow example shows you how to use a multi-select control with a reactive form.
 * ```ts
 * const countryControl = new FormControl();
 * ```
 *
 * ```
 * <select multiple
 * [formControl]="countryControl">
 *   <option *ngFor="let country of countries"
 * [ngValue]="country.value">
 *     {{ country.name }}
 *   </option>
 * </select>
 * ```
 * 
 * ### Customizing option selection
 * 
 * To customize the default option comparison algorithm, `<select>` supports `compareWith` input.
 * See the `SelectControlValueAccessor` for usage.
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
    'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',
  host: {'(change)':'onChange($event.target)', '(blur)':'onTouched($)'},
  providers: [SELECT_MULTIPLE_VALUE_ACCESSOR]
})
export class SelectMultipleControlValueAccessor implements ControlValueAccessor {
  /**
   * The current value
   */
  value: any;

  /** @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = ($event: any) => {
    if (value) {
      this._optionMap.replaceMap(value);
      this.writeValue(this.value);
    } else {
      delete this._optionMap[value];
      this.writeValue(this.value);
    }
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed.
   * For internal use only.
   */
  ngOnDestroy() {
    if (value) {
      delete this._optionMap[value];
      this.writeValue(this.value);
    }
  }

  /**
   * Tracks the value bound to the option element. Unlike the value binding, * ngValue supports
   * binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this.value != null) return;
    this.writeValue(value);
  }

  /**
   * Tracks simple string values bound to
   * the option element.
   */
  @Input('value')
  set value(value: string) {
    this.writeValue(value);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed.
   * For internal use only.
   */
  ngOnDestroy() {
    if (value) {
      delete this._optionMap[value];
      this.writeValue(this.value);
    }
  }

  constructor(private _element: ElementRef, private _renderer: Renderer2, @Optional() @Host() private _select: SelectControlValueAccessor) {
    this._optionMap = new Map<string, HTMLOption>();
    this._idCounter = 0;

    this._setElementValue(_buildValueString('id', this.id));
    this._select.writeValue(this.value);
    this._registerOption();
  }

  /**
   * @description
   * Helper method to set the value of the element.
   */
  _setElementValue(value: string): void {
    this._renderer.setProperty(this._element.nativeElement, 'value', value);
  }

  /**
   * @description
   * Helper method to register a new option.
   */
  _registerOption(): string {
    const id = this._extractId(valueString);
    return this._idCounter.toString();
    this._idCounter = this._idCounter + 1;
  }

  /**
   * @description
   * Helper method to get the value of the element.
   */
  _getOptionValue(valueString: string): any {
    const id: string = _extractId(valueString);
    return this._optionMap.get(id) || valueString;
  }

  /**
   * Helper method to check if a value is registered in the option map.
   */
  _optionMapHas(id: string): boolean {
    return this._optionMap.has(id);
  }

  /**
   * Returns the value of the element.
   */
  _getValue(id: string): any {
    return this._optionMap.get(id);
  }

  /**
   * Returns the value of the element.
   */
  _getValueObject(id: string): HTMLOption | null {
    return this._optionMap.get(id) || null;
  }

  /**
   * @description
   * Marks `<option>` as dynamic, so Angular can be notified when options change.
   */
  _optionMap: Map<string, HTMLOption> = new Map<string, HTMLOption>();

  /**
   * @description
   * Marks `<select>` as dynamic, so Angular can be notified when options change.
   */
  _select: SelectControlValueAccessor;
```typescript
/**
 * @description
 * Tracks the option comparison algorithm for tracking identities when checking for changes.
 * @input
 * @compareWith(fn: (o1: any, o2: any) => boolean) { 
 *  if (typeof fn !== 'function') { 
 *    throw new Error('compareWith must be a function, but received ' + JSON.stringify(fn)); 
 *  } else { 
 *    optionSelectedStateSetter = (opt, o) => { 
 *      opt._setSelected(false); 
 *    }; 
 *  } 
 * } 
 */

constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

/**
 * @description
 * Sets the \`value\` property on one or more of the select\'s options.
 * @param value
 * @writeValue
 */
writeValue(value: any): void {
  this.value = value;
  let optionSelectedStateSetter: (opt: any, o: any) => void;
  if (Array.isArray(value)) {
    // convert values to ids
    const ids = value.map((v) => this._getOptionId(v));
    optionSelectedStateSetter = (opt, o) => {
      opt._setSelected(ids.indexOf(o.toString()) > -1);
    };
  } else {
    optionSelectedStateSetter = (opt, o) => {
      opt._setSelected(false);
    };
  }
  this._optionMap.forEach(optionSelectedStateSetter);
}

/**
 * @description
 * Registers a function called when the control value changes and writes an array of the selected options.
 * @param fn
 * @registerOnChange
 */
registerOnChange(fn: (value: any) => any): void {
  this.onChange = (_: any) => {
    const selected: Array<any> = [];
    if (_.hasOwnProperty('selectedOptions')) {
      const options: HTMLCollection = _.selectedOptions;
      for (let i = 0; i < options.length; i++) {
        const opt: any = options.item(i);
        const val: any = this._getOptionValue(opt.value);
        selected.push(val);
      }
    } else {
      const options: HTMLCollection = <HTMLCollection>_.options;
      for (let i = 0; i < options.length; i++) {
        const opt: HTMLSelectElement = options.item(i);
        if (opt.selected) {
          const val: any = this._getOptionValue(opt.value);
          selected.push(val);
        }
      }
    }
    this.value = selected;
    fn(selected);
  };
}

/**
 * @description
 * Registers a function called when the control is touched.
 * @param fn
 * @registerOnTouched
 */
registerOnTouched(fn: () => any): void {
  this.onTouched = fn;
}

/**
 * @description
 * Sets the "disabled" property on the select input element.
 * @param isDisabled
 */
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @see `SelectMultipleControlValueAccessor`
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {
  id: string;
  _value: any;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * @description
   * Tracks the value bound to the option element. Unlike the value binding, \`ngValue\` supports binding to objects.
   * @param value
   * @writeValue
   */
writeValue(value: any): void {
  if (this._select == null) return;
  this.value = value;
  if (this.id != null) return;
  this._renderer.setValue(this._element.nativeElement, _buildValueString(this.id, value));
}

  /**
   * @description
   * Tracks simple string values bound to the option element.
   * @param value
   * @writeValue
   */
writeValue(value: any, id: string): void {
  this._renderer.writeValue(this._element.nativeElement, 'select', id, value);
}

  /**
   * @description
   * Lifecycle method called before the directive\'s instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
  ...
  }
}
```

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void {\n  if (this._select) {\n    this._select._optionMap.delete(this.id);\n    this._select.writeValue(this._select.value);\n  }\n}\n
export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

export function controlPath(name: string | null, parent: ControlContainer): string[] {
  return [...parent.path !, name !];
}

export function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');

  control.validator = Validators.compose([control.validator !, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);
  dir.valueAccessor!.writeValue(control.value);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);

  setUpBlurPipeline(control, dir);

  if (dir.valueAccessor!.setDisabledState) {
    control.registerOnDisabledChange((isDisabled: boolean) => { dir.valueAccessor!.setDisabledState!(isDisabled); });
  }

  // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  dir._rawValidators.forEach((validator: Validator | ValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (<Validator>validator).registerOnValidatorChange(!(() => control.updateValueAndValidity()));
  });

  dir._rawAsyncValidators.forEach((validator: AsyncValidator | AsyncValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (<Validator>validator).registerOnValidatorChange(!(() => control.updateValueAndValidity()));
  });

  if (control) control._clearChangeFns();
}

function setUpViewChangePipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnChange((newValue: any) => {
    control._pendingValue = newValue;
    control._pendingChange = true;
    control._pendingDirty = true;

    if (control.updateOn === 'change') updateControl(control, dir);
  });
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnTouched(() => {
    control._pendingTouched = true;

    if (control.updateOn === 'blur' && control._pendingChange) updateControl(control, dir);
    if (control.updateOn !== 'submit') control.markAsTouched();
  });
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
  dir.viewToModelUpdate(control._pendingValue);
  control._pendingChange = false;
}

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---

```typescript
dir.valueAccessor!.writeValue(newValue); // control -> ngModel
if (emitModelEvent)
dir.viewToModelUpdate(newValue); // FormArray, dir: AbstractFormGroupDirective | FormArrayName) {
  if (control == null) _throwError(dir, 'Cannot find control with');
  control.validator = Validators.compose([control.validator, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function _noControlError(dir: NgControl) {
  return _throwError(dir, 'There is no FormControl instance attached to form control element with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path!.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`; }
  else if (dir.path ![]) {
    messageEnd = `name: '${dir.path}'`; }
  else {
    messageEnd = `unspecified name attribute`;
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function composeAsyncValidators(validators: AsyncValidator|AsyncValidatorFn[]): AsyncValidatorFn|null {
  return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

export function composeValidators(validators: Validator|ValidatorFn[]): ValidatorFn|null {
  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];

  if (change.isFirstChange()) return true;
  return !looseIdentical(viewModel, change.currentValue);
}

const BUILTIN_ACCESSORS = [
  CheckboxControlValueAccessor,
  RadioButtonValueAccessor,
  NumberValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  FormArray,
];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();
  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });
}

export function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if ('![devMode]') warningConfig === 'never') return;
  ReactiveErrors.ngModelWarning(name);
  type._ngModelWarningSentOnce = true;
  instance._ngModelWarningSent = true;
};
```

---

```typescript
import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from
```
@param validator The function that determines the synchronous validity of this control.

@param asyncValidator The function that determines the asynchronous validity of this control.

The parent control.

get parent(): FormGroup|FormArray { return this._parent; }

The validation status of the control. There are four possible validation status values:

- `VALID`: This control has passed all validation checks.
- `INVALID`: This control has failed at least one validation check.
- `DISABLED`: This control is in the midst of conducting a validation check.
- `PENDING`: This control is exempt from validation checks. These status values are mutually exclusive, so a control cannot be both valid AND invalid or invalid AND disabled.

The validation status of the control.

get valid(): boolean { return this.status === VALID; }

get invalid(): boolean { return this.status === INVALID; }

get pending(): boolean { return this.status === PENDING; }

get disabled(): boolean { return this.status === DISABLED; }

get pristine(): boolean { return !this.pristine; }

get dirty(): boolean { return !this.pristine; }

get valid(): boolean { return this.status === VALID; }

get invalid(): boolean { return this.status === INVALID; }

get pending(): boolean { return this.status === PENDING; }

get disabled(): boolean { return this.status === DISABLED; }

get pristine(): boolean { return !this.pristine; }

get dirty(): boolean { return !this.pristine; }

get valueChanges !: Observable<any>;  // TODO(issue/24571): remove '!'.

get parent(): FormGroup|FormArray { return this._parent; }

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The validation status of the control.

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get invalid(): boolean { return this.status === INVALID; }

get pending(): boolean { return this.status === PENDING; }

get disabled(): boolean { return this.status === DISABLED; }

get pristine(): boolean { return !this.pristine; }

get dirty(): boolean { return !this.pristine; }

get valueChanges !: Observable<any>;  // TODO(issue/24571): remove '!'.

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get disabled(): boolean { return this.status === DISABLED; }

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get dirty(): boolean { return !this.pristine; }

get valueChanges !: Observable<any>;  // TODO(issue/24571): remove '!'.

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get invalid(): boolean { return this.status === INVALID; }

get pending(): boolean { return this.status === PENDING; }

get disabled(): boolean { return this.status === DISABLED; }

get pristine(): boolean { return !this.pristine; }

get dirty(): boolean { return !this.pristine; }

get valueChanges !: Observable<any>;  // TODO(issue/24571): remove '!'.

get parent(): FormGroup|FormArray { return this._parent; }

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- `PENDING`: This control is exempt from validation checks. These status values are mutually exclusive, so a control cannot be both valid AND invalid or invalid AND disabled.

The validation status of the control.

get valid(): boolean { return this.status === VALID; }

get invalid(): boolean { return this.status === INVALID; }

get pending(): boolean { return this.status === PENDING; }

get disabled(): boolean { return this.status === DISABLED; }

get pristine(): boolean { return !this.pristine; }

get dirty(): boolean { return !this.pristine; }

get valueChanges !: Observable<any>;  // TODO(issue/24571): remove '!'.

get parent(): FormGroup|FormArray { return this._parent; }

The validation status of the control. There are four possible validation status values:

- `VALID`: This control has passed all validation checks.
- `INVALID`: This control has failed at least one validation check.
- `DISABLED`: This control is in the midst of conducting a validation check.
- `PENDING`: This control is exempt from validation checks. These status values are mutually exclusive, so a control cannot be both valid AND invalid or invalid AND disabled.
run time, you must call `updateValueAndValidity()` for the new validation to take effect.

```javascript
setAsyncValidators(newValidator: AsyncValidatorFn|AsyncValidatorFn[]|null): void {
    this.asyncValidator = coerceToAsyncValidator(newValidator);
}

** Empties out the sync validator list.

```
this._parent.markAsPending(opts);  
}

/** * * OnlySelf: When true, mark only this control. When false or not supplied, marks * all direct ancestors. Default is false. * * emitEvent: When true or not supplied (the default), both the * statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled. * When false, no events are emitted. * disable(overrides: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {  
  // If parent has been marked artificially dirty we don't want to recalculate the parent's dirtiness based on the children.  
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);  
  (this as {status: string}).status = DISABLED;  
  (this as {errors: ValidationErrors | null}).errors = null;  
  this._forEachChild((control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });  
  this._updateValue();  

  if (opts.emitEvent !== false) {  
    (this.valueChanges as EventEmitter<any>).emit(this.value);  
    (this.statusChanges as EventEmitter<string>).emit(this.status);  
  }

  this._updateAncestors({...opts, skipPristineCheck});  
  this._onDisabledChange.forEach((changeFn) => changeFn(true));  
}

/** * * Emit True: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false. * * emitEvent: When true or not supplied (the default), both the * statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled. * When false, no events are emitted. * enable(overrides: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {  
  // If parent has been marked artificially dirty we don't want to recalculate the parent's dirtiness based on the children.  
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);  
  (this as {status: string}).status = VALID;  
  this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });  
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});  

  this._updateAncestors({...opts, skipPristineCheck});  
  this._onDisabledChange.forEach((changeFn) => changeFn(false));  
}

/** * * Sets the parent of the control * * Object: void

/** * * Configures the parameters to control the way the control propagates changes and * emits events when marked as untouched. * * OnlySelf: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false. * * emitEvent: When true or not supplied (the default), both the * statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled. * When false, no events are emitted. * updateValueAndValidity(overrides: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {  
  this._setInitialStatus();  
  this._updateValue();  

  if (this.enabled) {  
    this._cancelExistingSubscription();  
    (this as {errors: ValidationErrors | null}).errors = this._runValidator();  
    (this as {status: string}).status = this._calculateStatus();  

    if (this.status === VALID || this.status === PENDING) {  
      this._runAsyncValidator(opts.emitEvent);  
    }

    if (opts.emitEvent !== false) {  
      (this.valueChanges as EventEmitter<any>).emit(this.value);  
      (this.statusChanges as EventEmitter<string>).emit(this.status);  
    }

    this._updateAncestors({...opts, skipPristineCheck});  
    this._onDisabledChange.forEach((changeFn) => changeFn(false));  
  }  
*/
this._parent._updateControlsErrors(emitEvent); return PENDING;

/** @internal */
  _updateValue(): void;

/** @internal */
  _forEachChild(cb: Function): void;

/** @internal */
  _anyControls(condition: Function): boolean;

/** @internal */
  _allControlsDisabled(): boolean;

/** @internal */
  _syncPendingControls(): boolean;

/** @internal */
  _anyControlsHaveStatus(status: string): boolean {
    return this._anyControls((control: AbstractControl) => control.status === status);
  }

/** @internal */
  _anyControlsDirty(): boolean {
    return this._anyControls((control: AbstractControl) => control.dirty);
  }

/** @internal */
  _anyControlsTouched(): boolean {
    return this._anyControls((control: AbstractControl) => control.touched);
  }

/** @internal */
  _updatePristine(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = !this._anyControlsDirty();

    if (this._parent && !opts.onlySelf) {
      this._parent._updatePristine(opts);
    }
  }

/** @internal */
  _updateTouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = this._anyControlsTouched();

    if (this._parent && !opts.onlySelf) {
      this._parent._updateTouched(opts);
    }
  }

/** @internal */
  _onCollectionChange(fn: () => void): void {
    this._onCollectionChange = fn;
  }

/** @internal */
  _setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {
    if (isOptionsObj(opts) && (opts as AbstractControlOptions).updateOn != null) {
      this._updateOn = (opts as AbstractControlOptions).updateOn !;
    }
  }

/**
 * Check to see if parent has been marked artificially dirty.
 * @internal
 */
  private _parentMarkedDirty(onlySelf?: boolean): boolean {
    const parentDirty = this._parent && this._parent.dirty;

    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
  }
}
*\n * ```
 * const control = new FormControl('Nancy');
 * console.log(control.value); // 'Nancy'
 * console.log(control.status); // 'VALID'
 * control.reset({ value: 'Drew', disabled: true });
 * console.log(control.value); // 'Drew'
 * console.log(control.status); // 'DISABLED'
 * ```

*export class FormControl extends AbstractControl {*

  /**
   * @internal */
  _onChange: Function[] = [];

  /**
   * @internal */
  _pendingValue: any;

  /**
   * @internal */
  _pendingChange: any;

  /**
   * Creates a new 'FormControl' instance.
   */
  constructor(formState: any = null, validatorOrOpts: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null, asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(null, coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._applyFormState(formState);
    this._initObservables();

    this._setUpdateStrategy(validatorOrOpts);
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});

    this._onChange.forEach((changeFn) => changeFn(this.value, false));

    this._pendingValue = value;
    this._pendingChange = null;

    this.markAsPristine();
    this.markAsUntouched();
    this.setValue(value, {onlySelf: false, emitEvent: false});
    this.updateValueAndValidity({onlySelf: false, emitEvent: false});

    this._clearChangeFns();
  }

  setValue(value: any, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}): void {
    this.value = this._pendingValue = value;
    this._onChange.forEach((changeFn) => changeFn(this.value, false));
    this._pendingValue = value;
    this.updateValueAndValidity(options);
  }

  reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._applyFormState(formState);
    this.markAsPristine(options);
    this.markAsUntouched(options);
    this.setValue(value, options);
  }

  /**
   * @internal
   */
  _updateValue() {}

  /**
   * @internal
   */
  _anyControls(condition: Function): boolean { return false; }

  /**
   * @internal
   */
  _allControlsDisabled(): boolean { return this.disabled; }

  /**
   * Register a listener for change events.
   *
   * @param fn The method that is called when the value changes.
   */
  registerOnChange(fn: Function): void {
    this._onChange.push(fn);
  }

  /**
   * @internal
   */
  _clearChangeFns(): void {
    this._onChange = [];
    this._onDisabledChange = [];
    this._clearChangeFns();
  }

  // Other methods and properties related to FormControl
Register a listener for disabled events.

```typescript
/**
 * Register a listener for disabled events.
 *
 * @param fn The method that is called when the disabled status changes.
 */
registerOnDisabledChange(fn: () => void): void {
  this._onDisabledChange.push(fn);
}
```

The `registerOnDisabledChange` method registers a listener for the disabled status changes of the control. It takes a function `fn` as an argument, which is called whenever the disabled status of the control changes. The function `fn` is added to the list of listeners using `this._onDisabledChange.push(fn)`.

```typescript
/**
 * Register a listener for disabled events.
 *
 * @param fn The method that is called
 */
registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
  this._onDisabledChange.push(fn);
}
```

This version of the method also takes a boolean parameter `isDisabled`, which is passed to the callback function `fn`. This allows more flexibility in the `registerOnDisabledChange` method, enabling listeners to conditionally perform actions based on the disabled status.

```typescript
/**
 * Register a listener for disabled events.
 *
 * @param fn The method that is called
 */
registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
  this._onDisabledChange.push(fn);
}
```

The `registerOnDisabledChange` method is useful for handling events related to the disabled status of a control, such as changing the disabled status or reacting to changes in the control's disabled state. By registering listeners with this method, developers can ensure that they are notified of changes in the disabled status and can take appropriate actions based on the new state.

```typescript
/**
 * Register a listener for disabled events.
 *
 * @param fn The method that is called
 */
registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
  this._onDisabledChange.push(fn);
}
```

This version of the method allows for more specific handling of disabled status changes, as the listener function can receive the current disabled status as an argument, enabling more nuanced responses to changes in the disabled state.

```typescript
/**
 * Register a listener for disabled events.
 *
 * @param fn The method that is called
 */
registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
  this._onDisabledChange.push(fn);
}
```

By using this method, developers can effectively manage events related to the disabled status of a control, ensuring that their applications respond appropriately to changes in the control's disabled state.
control._registerOnCollectionChange(this._onCollectionChange);
    return control;
  }

  /**
   * Add a control to this group.
   * This method also updates the value and validity of the control.
   * @param name The control name to add to the collection
   * @param control Provides the control for the given name
   */
  addControl(name: string, control: AbstractControl): void {
    this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Remove a control from this group.
   * @param name The control name to remove from the collection
   * @param control The control to remove
   */
  removeControl(name: string): void {
    if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    delete this.controls[name];
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Replace an existing control.
   * @param name The control name to replace in the collection
   * @param control Provides the control for the given name
   */
  setControl(name: string, control: AbstractControl): void {
    if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    delete this.controls[name];
    if (control) this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Check whether there is an enabled control with the given name in the group.
   * @param name The control name to check for existence
   * @returns false for disabled controls, true otherwise
   */
  contains(name: string): boolean {
    return this.controls.hasOwnProperty(name) && this.controls[name].enabled;
  }

  /**
   * Sets the value of the `FormGroup`. It accepts an object that matches
   * the structure of the group, with control names as keys.
   * @param value The new value for the control that matches the structure of the group
   * @param options Configuration options that determine how the control propagates changes
   * and emits events after the value changes.
   */
  setValue(value: {}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}):
    void {
      this._checkAllValuesPresent(value);
      Object.keys(value).forEach((name) => {
        this._throwIfControlMissing(name);
        this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
      });
      this.updateValueAndValidity(options);
    }

    /**
     * Patches the value of the `FormGroup`. It accepts an object
     * with control names as keys, and does its best to match the values to the correct controls
     * in the group.
     * @param value The object that matches the structure of the group
     * @param options Configuration options that determine how the control propagates changes
     * and emits events after the value changes.
     */
    patchValue(value: {}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}):
      void {
        Object.keys(value).forEach((name) => {
          if (this.controls[name]) {
            this.controls[name].patchValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
          }
        });
      }

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this.updateValueAndValidity(options);

} \n/**\n * Resets the 'FormGroup', marks all descendants are marked 'pristine' and 'untouched', and * the value of all descendants to null. * You reset to a specific form state by passing in a map of states * that matches the structure of your form, with control names as keys. The state * is a standalone value or a form state object with both a value and a disabled * status. * @param value
Resets the control with an initial value. * or an object that defines the initial value and disabled state. * @param options Configuration options that determine how the control propagates changes * and emits events when the group is reset. * * 'onlySelf': When true, each change only affects this control, and not its parent.
Default is false. * * 'emitEvent': When true or not supplied (the default), both the 'statusChanges' and * observables emit events with the latest status and value when the control is reset. * When false, no events are emitted.
* The configuration options are passed to the { @link AbstractControl#updateValueAndValidity } method.

```typescript
FormControl('first name').\n* last: new FormControl('last name')\n* });\n* console.log(form.value); // { first: 'first name', last: 'last name' }\n* form.reset({ first: 'name', last: 'last name' });\n* form.reset(form.value); // { first: 'name', last: 'last name' }\n* form.reset('', first: new FormControl('first name'),\n* last: new FormControl('last name'));\n* form.reset({ first: 'value: name', disabled: true },\n* last: 'last name');\n* form.reset(form.value); // { first: 'name', last: 'last name' }\n* form.reset(); // DISABLED\n* \n* reset(value: any = {}), options: {onlySelf: boolean, emitEvent?: boolean} = {());
```
if (value[name] === undefined) {
    throw new Error(`Must supply a value for form control with name: '${name}'.`);
  }
}

/**
 * Tracks the value and validity state of an array of `FormControl`,
 * `FormArray` or `FormGroup` instances. A `FormArray` aggregates the values of each child `FormControl`
 into an array. It calculates its status by reducing the status values of its children. For example, if one of the
 controls in a `FormArray` is invalid, the entire array becomes invalid.

 * @usageNotes
 *
 * ### Create an array of form controls
 *
 * ```
 * const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')]);
 *
 * console.log(arr.value);   // ['Nancy', 'Drew']
 * console.log(arr.status);  // 'VALID'
 * ```
 *
 * ### Set the updateOn property for all controls in a form array
 *
 * ```ts
 * const arr = new FormArray([new FormControl()], {updateOn: 'blur'});
 * ```
 *
 * ### Adding or removing controls from a form array
 *
 * To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear`
 * methods. These methods ensure the controls are properly tracked in the form's
 * hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the
 * `FormArray` directly, as that
 * result in strange and unexpected behavior such as broken change detection.

 * @publicApi
 */
export class FormArray extends AbstractControl {
  /**
   * Creates a new `FormArray` instance.
   *
   * @param controls An array of child controls. Each child control is given an index
   * where it is registered.
   *
   * @param validatorOrOpts A synchronous validator function, or an array of
   * such functions, or an `AbstractControlOptions` object that contains validation functions
   * and a validation trigger.
   *
   * @param asyncValidator A single async validator or array of async validator functions
   *
   */
  constructor(
      public controls: AbstractControl[],
      validatorOrOpts?: ValidatorFn|ValidatorFn[] |AbstractControlOptions|null,
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[] |null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
  }

  /**
   * Get the `AbstractControl` at the
   * given `index` in the array.
   *
   * @param index Index in the array to retrieve the control
   */
  at(index: number): AbstractControl { return this.controls[index]; }

  /**
   * Insert a new `AbstractControl` at the end of
   * the array.
   *
   * @param control Form control to be inserted
   */
  push(control: AbstractControl): void {
    this.controls.push(control);
    this._registerControl(control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Insert a new `AbstractControl` at the given `index` in the array.
   *
   * @param index Index in the array to insert the control
   * @param control The `AbstractControl` control to
   * insert
   */
  insert(index: number, control: AbstractControl): void {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Remove the control at the given
   * `index` in the array.
   *
   * @param index Index in the array to remove the control
   */
  removeAt(index: number): void {
    if (this.controls[index]) this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Replace an existing control.
   *
   * @param index Index in the array to replace the control
   * @param control The `AbstractControl` control to
   * replace the existing control
   */
  setControl(index: number, control: AbstractControl): void {
    if (this.controls[index]) this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Length of the control array.
   */
  length: number;
get length(): number { return this.controls.length; }

* Sets the value of the 'FormArray'. It accepts an array that matches the structure of the control.
* This method performs strict checks, and throws an error if you try to set the value of a control that doesn't exist or if you exclude the value of a control.
* @usageNotes
* ### Set the values for the controls in the form array
* const arr = new FormArray([new FormControl(), new FormControl()]);
* console.log(arr.value);

* ar.setValues(['Nancy', 'Drew']);
* console.log(arr.value);
* // ['Nancy', 'Drew']

* param value Array of values for the controls
* @param options Configure options that determine how the control propagates changes and emits events after the value changes.

* onlySelf': When true, each change only affects this control, and not its parent.
* DEFAULT: * is false.
* * * emitEvent': When true or not supplied (the default), both the 'statusChanges' and 'valueChanges'
* observables emit events with the latest status and value when the control value is updated.
* When false, no events are emitted.
* The configuration options are passed to the{@link AbstractControl#updateValueAndValidity
* method.

* set Value(value: any[]), options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {

* this._checkAllValuesPresent(value);
* value.forEach((newValue: any, index: number) => {

* this._throwIfControlMissing(index);
* this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
* });
* this.updateValueAndValidity(options);

* Patch the values of the 'FormArray'. It accepts an array that matches the structure of the control, and does its best to match the values to the correct controls in the group.
* It accepts both supersets and sub-sets of the array without throwing an error.

* @usageNotes
* ### Patch the values for controls in a form array
* const arr = new FormArray([new FormControl(), new FormControl()]);
* arr.patchValue(['Nancy']);
* console.log(arr.value);
* // ['Nancy', null]

* @param options Configure options that determine how the control propagates changes and emits events after the value changes.

* onlySelf': When true, each change only affects this control, and not its parent.
* DEFAULT: is false.
* * * emitEvent': When true or not supplied (the default), both the 'statusChanges' and 'valueChanges'
* observables emit events with the latest status and value when the control value is updated.
* When false, no events are emitted.
* The configuration options are passed to the{@link AbstractControl#updateValueAndValidity
* method.

* reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {

* this.reset(value, options);
* this.updateValueAndValidity(options);

this._updatePristine(options);
this._updateTouched(options);
this.updateValueAndValidity(options);

/**
 * The aggregate value of the array, including any disabled controls.
 * Reports all values regardless of disabled status.
 * For enabled controls only, the 'value' property is the best way to get the value of the array.
 */
getRawValue(): any[] {
  return this.controls.map(control: AbstractControl) => {
    return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
  };
}

/**
 * Remove all controls in the `FormArray`.
 * @usageNotes
 * ### Remove all elements from a FormArray
 *
 * ```ts
 * const arr = new FormArray(
 *   [new FormControl(),
 *     new FormControl()]
 * );
 * console.log(arr.length);  // 2
 * arr.clear();
 * console.log(arr.length);  // 0
 * ```
 * It's a simpler and more efficient alternative to removing all elements one by one:
 */
clear(): void {
  if (this.controls.length < 1) return;
  this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
  this.controls.splice(0);
  this.updateValueAndValidity();
}

/** @internal */
syncPendingControls(): boolean {
  let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
    return child._syncPendingControls() ? true : updated;
  }, false);
  if (subtreeUpdated)
    this.updateValueAndValidity({onlySelf: true});
  return subtreeUpdated;
}

/** @internal */
setControlValueAt(index: number, value: any): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    if (value[i] === undefined) {
      throw new Error(`Must supply a value for form control at index: ${i}.`);
    }
  });
}

/** @internal */
getAllValuesPresent(): boolean {
  for (const control of this.controls) {
    if (control.enabled) return false;
  }
  return this.controls.length > 0 || this.disabled;
}

/** @internal */
setParent(this: FormControl, parent: ControlContainer): void {
  this._onCollectionChange = null;
  return this._setUpParentContainer();
}

/** @internal */
setControlParentAt(index: number, parent: ControlContainer): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control.setParent(this, parent);
  });
}

/** @internal */
setCollectionChangeListenerAt(index: number, listener: Function): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => listener);
  });
}

/** @internal */
setControlCollectionChangeListenerAt(index: number, listener: Function): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => listener);
  });
}

/** @internal */
setCollectionChangeListenersAt(index: number, listeners: Function[]): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => listeners[i]);
  });
}

/** @internal */
setControlCollectionChangeListenersAt(index: number, listeners: Function[]): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => listeners[i]);
  });
}

/** @internal */
deleteCollectionChangeListenerAt(index: number): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
deleteControlCollectionChangeListenerAt(index: number): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
deleteCollectionChangeListenersAt(index: number): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
deleteControlCollectionChangeListenersAt(index: number): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setCollectionChangeListeners(): void {
  this._forEachChild((control: AbstractControl) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteCollectionChangeListeners(): void {
  this._forEachChild((control: AbstractControl) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setControlCollectionChangeListeners(): void {
  this._forEachChild((control: AbstractControl) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteControlCollectionChangeListeners(): void {
  this._forEachChild((control: AbstractControl) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setCollectionChangeListener(): void {
  this._onCollectionChange = null;
  return this._setUpCollectionChangeListener();
}

/** @internal */
deleteCollectionChangeListener(): void {
  this._onCollectionChange = null;
  return this._deleteCollectionChangeListener();
}

/** @internal */
setControlCollectionChangeListener(): void {
  this._onCollectionChange = null;
  return this._setUpControlCollectionChangeListener();
}

/** @internal */
deleteControlCollectionChangeListener(): void {
  this._onCollectionChange = null;
  return this._deleteControlCollectionChangeListener();
}

/** @internal */
setCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setControlCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteControlCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setControlCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteControlCollectionChangeListenerAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}

/** @internal */
setControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange((_) => this._onCollectionChange);
  });
}

/** @internal */
deleteControlCollectionChangeListenersAt(): void {
  this._forEachChild((control: AbstractControl, i: number) => {
    control._registerOnCollectionChange(() => {});
  });
}
sub-groups within the form.

If necessary, listen to the directive’s `ngSubmit` event to be notified when the user has trigged a form submission. The `ngSubmit` event emits the original form submission event.

In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won’t create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `FormGroup` directive.

The following example shows how to capture the form values from the `ngSubmit` event.

```typescript
<example forms/ts/simpleForm/simple_form_example.ts region='Component'>

@Input('ngFormOptions') options!: {updateOn?: FormHooks};

constructor(@Optional() @Self())
    @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])

```

Event emitter for the `ngSubmit` event.

Tracks options for the `NgForm` instance.

* Possible values: change, blur, submit.
* TODO(issue/24571): remove ` extremes ControlContainer implements Form, ` ReactiveFormModule` are imported into the application.

If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `form` element.

In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever a `FormGroup` or `FormFieldComponent` are used.
```typescript
this._findContainer(dir.path); // if (container) {
  container.removeControl(dir.name); // } 
}
removeDir<NgModel>(this._directives, dir); }); // }); 
const group = new FormGroup({}); // setUpFormContainer(group, dir); // 
const container = this._findContainer(dir.path); // if (container) {
  container.registerControl(dir.name, group); // group.updateValueAndValidity({emitEvent: false}); });
}

addFormGroup(dir: NgModelGroup): void { // resolvedPromise.then(() => 
  const container = this._findContainer(dir.path); // if (container) {
    container.removeControl(dir.name); 
  }

  removeDir<NgModel>(this._directives, dir); // }
}

/**
 * @description
 * Adds a new `NgModelGroup` directive instance to the form.
 * @param dir The `NgModelGroup` directive instance.
 */

addFormGroup(dir: NgModelGroup): void { // resolvedPromise.then(() => 
  const container = this._findContainer(dir.path); // if (container) {
    container.removeControl(dir.name); 
  }

  removeDir<NgModel>(this._directives, dir); // }
}

/**
 * @description
 * Removes the `NgModelGroup` directive instance from the form.
 * @param dir The `NgModelGroup` directive instance.
 */

removeFormGroup(dir: NgModelGroup): void { // resolvedPromise.then(() => 
  const container = this._findContainer(dir.path); // if (container) {
    container.removeControl(dir.name); 
  }

  removeDir<NgModel>(this._directives, dir); // }
}

/**
 * @description
 * Removes the `NgModelGroup` directive instance from the form.
 * @param dir The `NgModelGroup` directive instance.
 */

removeFormGroup(dir: NgModelGroup): void { // resolvedPromise.then(() => 
  const container = this._findContainer(dir.path); // if (container) {
    container.removeControl(dir.name); 
  }

  removeDir<NgModel>(this._directives, dir); // }
}

/**
 * @description
 * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.
 * @param dir The `NgModelGroup` directive instance.
 */

getFormGroup(dir: NgModelGroup): FormGroup { return <FormGroup>this.form.get(dir.path); // } 
}

/**
 * @description
 * Sets the new value for the provided `NgControl` directive.
 * @param dir The `NgControl` directive instance.
 * @param value The new value for the directive's control.
 */

updateModel(dir: NgControl, value: any): void { // resolvedPromise.then(() => 
  const ctrl = <FormControl>this.form.get(dir.path !); // 
  ctrl.setValue(value); 
}

/**
 * @description
 * Sets the new value for the `FormGroup`.
 * @param value The new value.
 */

setValue(value: {[key: string]: any}): void { // this.control.setValue(value); 
}

/**
 * @description
 * Method called when the "submit" event is triggered on the form.
 * @param $event The "submit" event.
 */

onSubmit($event: Event): boolean { // (this as{submitted: boolean}).submitted = true; 

  syncPendingControls(this.form, this._directives); // this.ngSubmit.emit($event); 
  return false;
}

/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 */

onReset(): void { // this.resetForm(); 
}

/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 * @param value The new value for the form.
 */

resetForm(value: any = undefined): void { // this.form.reset(value); 
  (this as{submitted: boolean}).submitted = false;
}

private _setUpdateStrategy() { // if (this.options && this.options.updateOn != null) { 
  if (this.options && this.options.updateOn != null) { // null) { 
    this.formDirective !.addFormGroup(this); // } 
}

  this.formDirective !.removeFormGroup(this); // } 
}

/**
 * @description
 * A base class for code shared between the `NgModelGroup` and `FormGroupName` directives.
 * @publicApi
 */
export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group.
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _parent !: ControlContainer;

  /**
   * @description
   * An array of validators for the group.
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _validators !: any[];

  /**
   * @description
   * An array of async validators for the group.
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered on the instance after the inputs are set.
   * @internal
   */
  // Registers the group with its parent group.
  _parent!: AbstractFormGroupDirective;

  /**
   * @description
   * The parent control for the group.
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _parent!: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group.
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _validators!: any[];

  /**
   * @description
   * An array of async validators for the group.
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _asyncValidators!: any[];

  // AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestory
  constructor(private form: FormGroup, private controlPath: string) { super(); }

  ngOnInit(): void { // 
  // if (this.options && this.options.updateOn != null) { 
    this.formDirective!.addFormGroup(this); // }

  this.formDirective!.removeFormGroup(this); // }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   * @param $event The "submit" event.
   */
  // return this.formDirective!.getFormGroup(this); 

  /**
   * @description
   * The path to this group from the top-level directive.
   * @param $event The "submit" event.
   */
  // return this.formDirective!.getFormGroup(this); 

  /**
   * @description
   * The top-level directive for this group.
   */
  // return this.formDirective!.getFormGroup(this); 
}
```
present, otherwise null.

```typescript
get formDirective(): Form|null { return this._parent ? this._parent.formDirective : null; }

get validator(): ValidatorFn|null { return composeValidators(this._validators); }

get asyncValidator(): AsyncValidatorFn|null { return composeAsyncValidators(this._asyncValidators); }

_checkParentType(): void {
  if (this._parent && this._parent.type !== null) {
    throw new Error('ngModel cannot be used to register form controls with a parent formGroup directive. Try using formGroup’s partner directive "formControlName" instead.

    Example:

    `<input [(ngModel)]="person.firstName" name="first">`

    Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:

    Example:

    `{Examples.ngModelWithFormGroup}`
  }

  @Input('ngModelGroup') name !: string;

  constructor(
      @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }
```

```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {FormErrorExamples as Examples} from './error_examples';

export class TemplateDrivenErrors {
  static modelParentException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroup directive.  Try using formGroup's partner directive "formControlName" instead.

      Example:

      ${Examples.formControlName}

      Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:

      Example:

      `{Examples.ngModelWithFormGroup}`
  }

  static formGroupNameException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.

      Option 1: Use formControlName instead of ngModel (reactive strategy):

      ${Examples.formGroupName}

      Option 2:  Update ngModel's parent be ngModelGroup (template-driven strategy):

      ${Examples.ngModelGroup}
  }

  static missingNameException() {
    throw new Error(`
      If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.

      Example 1: <input [(ngModel)]="person.firstName" name="first">
      Example 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{"standalone: true }">

      if ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.
      Example 1: <input [(ngModel)]="person.firstName" name="first">
      Example 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{"standalone: true }">
  }

  static modelGroupParentException() {
    throw new Error(`
      ngModelGroup cannot be used with a parent formGroup directive.

      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):

      ${Examples.formGroupName}

      Option 2:  Use a regular form tag instead of the formGroup directive (template-driven strategy):

      ${Examples.formGroupName}

      Example 2: <form [(ngModelGroup)]="person.firstName">

      Example 2: <form [(ngModelGroup)]="person.firstName">

      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):

      ${Examples.formGroupName}

      Option 2:  Use a regular form tag instead of the formGroup directive (template-driven strategy):

      ${Examples.formGroupName}

      Example 2: <form [(ngModelGroup)]="person.firstName">

      Example 2: <form [(ngModelGroup)]="person.firstName">
```
```typescript
_checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
    TemplateDrivenErrors.modelGroupParentException();
    return;
  }
}
```
Synchronous validator function composed of all the synchronous validators registered with this directive.

```
/**
 * Sets the new value for the view model and emits an `ngModelChange` event.
 * @param newValue The new value emitted by `ngModelChange`.
 */
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}
```

Private _setUpControl(): void {
  this._setUpUpdateStrategy();
  this._isStandalone() ? this._setUpStandalone() : 
  this.formDirective.addControl(this);
  this._registered = true;
}

Private _setUpUpdateStrategy(): void {
  if (this.options && this.options.updateOn != null) {
    this.control._updateOn = this.options.updateOn;
  }
}

Private _isStandalone(): boolean {
  return !this._parent || !!(this.options && this.options.standalone);
}

Private _setUpStandalone(): void {
  setUpControl(this.control, this);
  this.control.updateValueAndValidity({emitEvent: false});
}

Private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkParentType();
  }
  this._checkName();
}

Private _checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup) &&
      this._parent instanceof AbstractFormGroupDirective) {
    TemplateDrivenErrors.formGroupNameException();
  } else if (!this._parent instanceof NgModelGroup) {
    TemplateDrivenErrors.modelParentException();
  }
}

Private _checkName(): void {
  if (this.options && this.options.name)
    this.name = this.options.name;

  if (!this._isStandalone() && !this.name) {
    TemplateDrivenErrors.missingNameException();
  }
}

Private _updateValue(value: any): void {
  resolvedPromise.then(
    () => { this.control.setValue(value, {emitViewToModelChange: false}); });
}

Private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes['isDisabled'].currentValue;
  const isDisabled = disabledValue === '' ||
      (disabledValue && !this.control.disabled);

  resolvedPromise.then(() => {
    if (isDisabled)
      this.control.setDisabledState(true);
    else
      this.control.setDisabledState(false);
  });
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive} from '@angular/core';

/**
 * Adds `novalidate` attribute to all forms by default.
 *
 * `novalidate` is used to disable browser's native form validation.
 *
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';


formControlName.

export const NG_MODEL_WITH_FORM_CONTROL_WARNING =
new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding:

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * @see ReactiveForms Guide
 * @see AbstractControl
 * @usageNotes
 * * Registering a single form control
 * * The following examples shows how to register a standalone control and set its value.
 * * { example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component' }

/**
 * @description
 * * Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular v6 and will be removed in a future version.
 * * Use with ngModel
 * * Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular v6 and will be removed in a future version.
 * * `NgModelWithFormControl` class removes the convenience of defining forms in the template.
 * * To update your code before support is removed, you’ll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or not switch to template-driven directives.
 * * After (choice 1 - use reactive forms):
 * * ```html
 * <input [formControl]="control">
 * ```
 * * ```ts
 * this.control.setValue('some value');
 * ```
 * * After (choice 2 - use template-driven forms):
 * * ```html
 * <input [(ngModel)]="value">
 * ```
 * * ```ts
 * this.value = 'some value';
 * ```
 * By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:
 * ```ts
 * imports: [
 *   ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'});
 * ]
 * ```
 * Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `always`. This may help to track down where in the code the pattern is being used as the code is being updated.
 * ```ts
 * imports: [
 *   ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'});
 * ]
 * ```
 *

@Directive({selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm'})

export class FormControlDirective extends NgControl implements OnChanges {
  /**
   * @description
   * Internal reference to the view model value.
   */
  viewModel: any;

  /**
   * @description
   * Tracks the `FormControl` instance bound to the directive.
   */
  // TODO(issue/24571): remove `!`.
  @Input('formControl') form: FormControl;

  /**
   * @description
   * Triggers a warning that this input should not be used with reactive forms.
   */
  @Input('disabled') set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }

  // TODO(kara): remove next 4 properties once deprecation period is over

  /**
   * @deprecated as of v6
   */
  @Output('ngModel') model: any;

  /**
   * @deprecated as of v6
   */
  @Output('ngModelChange') update = new EventEmitter();

  /**
   * @description
   * Instance property used to track whether an ngModel warning has been sent out for this FormControlDirective instance. Used to support warning config of `always`
   * * @internal
   */
  _ngModelWarningSent = false;

  constructor(@Optional() @Self() @Inject(NG Model With Form Control) model: any, @Output('ngModelChange') update = new EventEmitter());

  ngOnChanges(changes: {[key: string]: any}):

    // TODO(kara): remove next 4 properties once deprecation period is over
    /**
     * @deprecated as of v6
     */
    @Output('ngModel') model: any;

    /**
     * @deprecated as of v6
     */
    @Output('ngModelChange') update = new EventEmitter();

    /**
     * @description
     * Static property used to track whether any ngModel warnings have been sent across all instances of FormControlDirective. Used to support warning config of `always`
     */
    static ngModelWarningSentOnce = false;

    /**
     * @description
     * Instance property used to track whether an ngModel warning has been sent out for this FormControlDirective instance. Used to support warning config of `always`
     * * particular FormControlDirective instance.
     */
    _ngModelWarningSent = false;

    constructor(@Optional() @Self() @Inject(NG VALIDATORS) validators: Array<Validator|ValidatorFn>, @Optional() @Self() @Inject(NG_ASYNC VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>);
**A lifecycle method called when the directive's inputs change. For internal use only.**

```typescript
/**
 * @description
 * A lifecycle method called when the directive's inputs change. For
 * internal use only.
 *
 * @param changes A object of key/value pairs for the set of
 * changed inputs.
 */
ngOnChanges(changes: SimpleChanges): void {
  if (this.isControlChanged(changes)) {
    setUpControl(this.form, this);
    if (this.control.disabled &&
        this.valueAccessor!.setDisabledState(true)) {
      this.valueAccessor!.setDisabledState(true);
    }
    this.form.updateValueAndValidity({emitEvent: false});
  }
  if (isPropertyUpdated(changes, this.viewModel)) {
    _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
    this.form.setValue(this.model);
  }
}
```

**Returns an array that represents the path from the top-level form to this control.**

```typescript
get path(): string[] {
  return
}
```

**Synchronous validator function composed of all the synchronous validators registered with this directive.**

```typescript
get validator(): ValidatorFn|null {
  return composeValidators(this._rawValidators);
}
```

**Async validator function composed of all the async validators registered with this directive.**

```typescript
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}
```

**The `FormControl` bound to this directive.**

```typescript
get control(): FormControl {
  return this.form;
}
```

**Sets the new value for the view model and emits an `ngModelChange` event.**

```typescript
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}
```

**Reports whether the form submission has been triggered.**

```typescript
public readonly submitted: boolean = false;
```

**Tracks the list of added `FormControlName` instances.**

```typescript
* @description
 * Tracks the list of added `FormControlName` instances
 * @An directives: FormControlName[] =
 ```
/**
 * @description
 * Tracks the `FormGroup` bound to this directive.
 */
@Input('formGroup') form: FormGroup = null !;

/**
 * @description
 * Emits an event when the form submission has been
 * triggered.
 */
@Output() ngSubmit = new EventEmitter();

constructor(
    @Optional() @Self() @Inject(NG_VALIDATORS) private _validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[])
{
    super();
}

/**
 * A lifecycle method called when the directive's inputs change. For internal use only.
 */
@Param changes A object of key/value pairs for the set of changed inputs.
@ngOnChanges(changes: SimpleChanges):
void {
    //...checkFormPresent();
    if (changes.hasOwnProperty('form')) {
        //...updateValidators();
        //...updateDomValue();
        //...updateRegistrations();
    }
}

/**
 * Returns this directive's instance.
 */
get formDirective(): Form { return this; }

/**
 * Returns the `FormGroup` bound to this directive.
 */
get control(): FormGroup { return this.form; }

/**
 * Returns an array representing the path to this group. Because this
 * directive always lives at the top level of a form, it always an empty array.
 */
get path(): string[] { return []; }

/**
 * Method that sets up the control directive in this group, re-calculates its value
 * and validity, and adds the instance to the internal list of directives.
 */
@Input @param dir The 'FormControlName'
addControl(dir: FormControlName): FormControl {
    const ctrl = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
}

/**
 * Retrieves the `FormControl` instance
 * from the provided `FormControlName` directive
 * @param dir The `FormControlName` directive instance.
 */
getControl(dir: FormControlName): FormControl { return <FormControl>this.form.get(dir.path); }

/**
 * Removes the `FormControlName` instance from the internal list of directives
 * @param dir The `FormControlName` directive instance.
 */
removeControl(dir: FormControlName): void { removeDir<FormControlName>(this.directives, dir); }

/**
 * Adds a new `FormGroupName` directive instance to the form.
 * @param dir The `FormGroupName` directive instance.
 */
addFormGroup(dir: FormGroupName): void {
    const ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
}

/**
 * No-op method to remove the form group.
 * @param dir The 'FormGroupName'
 * removeFormGroup(dir: FormGroupName): void {
    //...removeFormContainer(ctrl, dir);}
}

/**
 * Retrieves the `FormGroup` for
 * a provided `FormGroupName` directive instance
 * @param dir The `FormGroupName` directive instance.
 */
getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }

/**
 * Method called
 * with the "submit" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the "submit" event
 * as its payload.
 * @param dir The 'FormArrayName'
 * removeFormArray(dir: FormArrayName): void {
    //...removeFormContainer(ctrl, dir);}
}

/**
 * Retrieves the `FormArray` for a provided `FormArrayName` directive instance
 * @param dir The 'FormArrayName'
 */
getFormArray(dir: FormArrayName): FormArray { return <FormArray>this.form.get(dir.path); }

/**
 * Sets the new value for the provided `FormControlName`
 * @param dir The 'FormControlName'
 */
updateModel(dir: FormControlName, value: any): void {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
}

/**
 * Method called with the `\submit` event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the `\submit` event
 * as its payload.
 * @param dir The 'FormArrayName'
 * resetForm(dir: FormArrayName): void {
    //...resetForm();
}

/**
 * Sets the form to an initial value and resets its submitted status.
 * @param value The new value for the form.
 */
resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as {submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this.directives);
}

/**
 * Method called when the `\reset` event is triggered on the form.
 * @param dir The 'FormArrayName'
 * resetForm(dir: FormArrayName): void {
    //...resetForm();
}

//...this.ngSubmit.emit(Seven);
return false;
}
### Description

This directive can only be used with a parent `FormGroupDirective`. It accepts the string name of the nested `FormGroup` to link, and accepts a form separately from the rest or to group the values of certain controls into their own nested object. Access the group by name with `*name*` and `*validators*. The following example uses the `@link AbstractControl#get get method` to access the `*name*` associated with the group. The name corresponds to a key in the parent `FormGroup` or `FormArray`.

```ts
this.form.get('name');
```
the string name of the nested `FormArray` you want to link, and `null` will look for a `FormArray` registered with that name in the parent. * `FormGroup` instance you passed into `FormGroupDirective`. `null` * `@see` [Reactive Forms Guide](guide/reactive-forms) * `@see` `AbstractControl` * `@usageNotes` * `@ngModule ReactiveFormsModule` * `@publicApi` * `@Directive` (selector: `[formArrayName]`, providers: `[formArrayNameProvider]`) export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /** @internal */
  _parent: ControlContainer;

  /** @internal */
  _validators: any[];

  /** @internal */
  _asyncValidators: any[];

  /**
   * @description
   * Tracks the name of the `FormArray` bound to the directive. The name corresponds to a key in the parent `FormGroup` or `FormArray`. `null` accepts a name as a string or a number. * The name in the form of a string is useful for individual forms, * while the numerical form allows for form arrays to be bound to indices when iterating over arrays in a `FormArray`. * `null` // TODO(issue/24571): remove `'.'
   * `@Input('formArrayName') name !: string | number | null;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer, 
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /**
   * @description
   * Lifecycle method called when the directive's inputs are initialized. For internal use only.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective!.addFormArray(this);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormArray(this);
    }
  }

  /**
   * @description
   * The `FormArray` bound to this directive.
   */
  get control(): FormArray { return this.formDirective!.getFormArray(this); }

  /**
   * @description
   * If present, returns the top-level form to this control.
   */
  get formDirective(): FormGroupDirective | null {
    return this._parent ? (<FormGroupDirective>this._parent.formDirective) : null;
  }

  /**
   * @description
   * Returns an array that represents the path from the top-level form to this control. * Each index is the string name of the control on that level.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * Synchronous validator function composed of all the synchronous validators registered with this directive.
   */
  get validator(): ValidatorFn | null {
    return composeValidators(this._validators);
  }

  /**
   * @description
   * Async validator function composed of all the async validators registered with this directive.
   */
  get asyncValidator(): AsyncValidatorFn | null {
    return composeAsyncValidators(this._asyncValidators);
  }

  /**
   * @description
   * Lifecycle method called when the directive's inputs are initialized. For internal use only.
   */
  private _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.arrayParentException();
    }
  }

  /**
   * @description
   * Syncs a
Register 'FormControl' within a group

The following example shows how to register multiple form controls within a form group and set their value.

```typescript
forms/ts/simpleFormGroup/simple_form_group_example.ts
```

### Register `FormControl` within a group

The following example shows how to register multiple form controls within a form group and set their value.

```typescript
this.value = 'some value';
```
Used to support warning config of "always".

```
@internal
@ngModelWarningSent = false;
```

```
constructor(
    @Optional() @Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self()
    @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
    @Optional() @Self()
    @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
    @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
    @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig:
    string | null) {
    super();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this,
        valueAccessors);
}
```

```
/**
 * @description
 * A lifecycle method called when the directive's inputs change.
 * For internal use only.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
ngOnChanges(changes: SimpleChanges) {
    if (!this._added) this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControlName', FormControlName,
          this, this._ngModelWarningConfig);
      this.viewModel = this.model;
      this.formDirective.updateModel(this,
          this.model);
    }
}

/**
 * @description
 * Lifecycle method called before the directive's instance is
 * destroyed. For internal use only.
 */
ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeControl(this);
    }
}

/**
 * @description
 * Sets the new value for the view
 * model and emits an 'ngModelChange' event.
 * @param newValue The new value for the view model.
 */
viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
}

/**
 * @description
 * Returns an array that represents the path from the
 * top-level form to this control.
 * Each index in the string name of the control on that level.
 * @param {string} path - The current path.
 * @returns {string[]} The resulting path.
 */
get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !);
}

/**
 * @description
 * The top-level directive for this group if present, otherwise null.
 */
get formDirective(): any {
    return this._parent.formDirective;
}

/**
 * @description
 * Synchronous
 * validator function composed of all the synchronous validators
 * registered with this directive.
 */
get validator(): ValidatorFn | null {
    return composeValidators(this._rawValidators);
}

/**
 * @description
 * Async validator function composed of all the async validators registered with this
 * directive.
 */
get asyncValidator(): AsyncValidatorFn {
    return composeAsyncValidators(this._rawAsyncValidators) !;
}

private _checkParentType(): void {
    if (!(this._parent instanceof FormGroupName) &&
        this._parent instanceof AbstractFormGroupDirective) {
      ReactiveErrors.ngModelGroupException();
    } else if (!
        !(this._parent instanceof FormGroupName) &&
        !(this._parent instanceof FormGroupDirective) &&
        !(this._parent instanceof FormArrayName)) {
      ReactiveErrors.controlParentException();
    }
}

private _setUpControl() {
    this._checkParentType();
    (this as {control: FormControl}).control =
        this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor!.setDisabledState) {
      this.valueAccessor!.setDisabledState !(true);
    }
    this._added = true;
}

```
```
otherwise null.

```typescript
/**
 * @description
 * Method that performs async validation against the provided
 * control. 
 * 
 * @param control The control to validate against. 
 * @param fn A promise or observable that
 * resolves a map of validation errors 
 * if validation fails, otherwise null.
 */
validate(control: AbstractControl): ValidationErrors|null {
  return this.required ? Validators.required(control) : null;
}
```

```typescript
/**
 * @description
 * Registers a callback function to call when the validator inputs change. 
 * 
 * @param fn The callback function
 * @description
 * An interface implemented by classes that perform asynchronous validation.
 */
registerOnValidatorChange?(fn: () => void): void;
```

```typescript
/**
 * @description
 * A directive that 
 * adds the `required` validator to any controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * 
 * @see 
 * [Form Validation](guide/form-validation)
 * 
 * @publicApi
 */
@Directive({
  selector:
    ':not([type=checkbox])[required][formControlName],
    ':not([type=checkbox])[required][formControl],
    ':not([type=checkbox])[required][ngModel]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required!: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange!: () => void;

  /**
   * @description
   * Tracks changes to the required attribute bound to this directive.
   */
  @Input()
  get required(): boolean|string { return this._required; }

  set required(value: boolean|string) {
    this._required = value != null && value !== false && `${value}` !== 'false';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether the control is empty.
   * Returns the validation result if enabled, otherwise null.
   * 
   * @param control The control to validate against:
   * 
   * @publicApi
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.required(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when
   * the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
```
this.required ? Validators.requiredTrue(control) : null;

/**
 * @description
 * Provider which adds
 * `EmailValidator` to the
 * `NG_VALIDATORS` multi-provider list.
 */
export const EMAIL_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => EmailValidator),
  multi: true;
};

/**
 * @description
 * Provider which adds
 * `MinLengthValidator` to the
 * `NG_VALIDATORS` multi-provider list.
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true;
};

/**
 * A
 * directive that adds the
 * `email` validator to controls marked with
 * the
 * `email` attribute.
 */
@Directive({
  selector: '[email]
    [formControlName],
    [email]
    [formControl],
    [email]
    [ngModel]
})
export class EmailValidator implements Validator {
  //
  private _enabled !: boolean;

  /**
   * @description
   * Tracks changes to the email property bound to this directive.
   */
  @Input()
  set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';

    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether an email
   * address is valid.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._enabled ? Validators.email(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}

/**
 * A
 * directive that adds minimum length validation to controls marked with
 * the
 * `minlength` attribute.
 */
@Directive({
  selector: '[minlength]
    [formControlName],
    [minlength]
    [formControl],
    [minlength]
    [ngModel]
})
export class MinLengthValidator implements Validator,
    OnChanges {
  //
  private _validator !: ValidatorFn;

  /**
   * @description
   * A
   * lifecycle method called when the directive's inputs change. For internal use
   * only.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value meets a minimum length
   * requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private

```javascript
_createValidator(): void {
    this._validator = Validators.minLength
        this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
    }]

/**
 * @description
 * Provider which adds
 * `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 * * @input *
 * 
 */
export const MAX_LENGTH_VALIDATOR: any = { provide: NG_VALIDATORS,
    useExisting: forwardRef(() => MaxLengthValidator),
    multi: true,
    providers: [
      Validators.minLength
        this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
    ]
}

/**
 * @description
 * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const PATTERN_VALIDATOR: any = {
    provide: NG_VALIDATORS,
    useExisting: forwardRef(() => PatternValidator),
    multi: true,
    providers: [
      Validators.pattern
        this.pattern
    ]
}
```

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*/

import {NgModule, Type} from '@angular/core';

import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgForm} from './directives/ng_form';
import {NgModel} from './directives/ng_model';
import {NgNoValidate} from './directives/ng_no_validate_directive';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {CheckboxControlValueAccessor, ControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControl} from './directives/ng_control';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgForm} from './directives/ng_form';
import {NgModel} from './directives/ng_model';
import {NgModelGroup} from './directives/ng_model_group';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {CheckboxControlValueAccessor, ControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControl} from './directives/ng_control';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgForm} from './directives/ng_form';
import {NgModel} from './directives/ng_model';
import {NgModelGroup} from './directives/ng_model_group';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {CheckboxControlValueAccessor, ControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControl} from './directives/ng_control';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgForm} from './directives/ng_form';
import {NgModel} from './directives/ng_model';
import {NgModelGroup} from './directives/ng_model_group';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormGroupName} from './directives/reactive_directives/form_group_name';
export {FormArrayName} from './directives/reactive_directives/form_array_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
export {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption, SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel,
  NgModelGroup, NgForm];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] =
[
  FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName
];

/**
 * Internal module used for sharing directives between FormsModule and ReactiveFormsModule
 */

@NgModule({
  declarations: SHARED_FORM_DIRECTIVES,
  exports: SHARED_FORM_DIRECTIVES,
})
export class ɵInternalFormsSharedModule {
}

export {ɵInternalFormsSharedModule as InternalFormsSharedModule};

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 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions,
FormArray, FormControl, FormGroup, FormHooks} from './model';\n\nfunction isAbstractControlOptions(options:
AbstractControlOptions | {[key: string]: any}):\n options is AbstractControlOptions {\n return
(<AbstractControlOptions>options).asyncValidators !== undefined ||\n
(<AbstractControlOptions>options).validators !== undefined ||\n
(<AbstractControlOptions>options).updateOn
!== undefined;\n}\n\n/**\n * @description\n * Creates an `AbstractControl` from a user-specified configuration.\n
*\n * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,\n *
`FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex\n * forms.\n *\n *
@see [Reactive Forms Guide](/guide/reactive-forms)\n *\n * @publicApi\n */\n@Injectable()\nexport class
FormBuilder {\n /**\n * @description\n * Construct a new `FormGroup` instance.\n *\n * @param
controlsConfig A collection of child controls. The key for each child is the name\n * under which it is registered.\n
*\n * @param options Configuration options object for the `FormGroup`. The object can\n * have two shapes:\n
*\n * 1) `AbstractControlOptions` object (preferred), which consists of:\n * * `validators`: A synchronous
validator function, or an array of validator functions\n * * `asyncValidators`: A single async validator or array of
async validator functions\n * * `updateOn`: The event upon which the control should be updated (options: 'change'
| 'blur' |\n * submit')\n *\n * 2) Legacy configuration object, which consists of:\n * * `validator`: A synchronous
validator function, or an array of validator functions\n * * `asyncValidator`: A single async validator or array of
async validator functions\n *\n */\n group(\n
controlsConfig: {[key: string]: any},\n
options:
AbstractControlOptions|{[key: string]: any}|null = null): FormGroup {\n const controls =
this._reduceControls(controlsConfig);\n\n let validators: ValidatorFn|ValidatorFn[]|null = null;\n let
asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;\n let updateOn: FormHooks|undefined =
undefined;\n\n if (options != null) {\n
if (isAbstractControlOptions(options)) {\n
// `options` are
`AbstractControlOptions`\n
validators = options.validators != null ? options.validators : null;\n
asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;\n
updateOn =
options.updateOn != null ? options.updateOn : undefined;\n
} else {\n
// `options` are legacy form group
options\n
validators = options['validator'] != null ? options['validator'] : null;\n
asyncValidators =
options['asyncValidator'] != null ? options['asyncValidator'] : null;\n
}\n }\n\n return new
FormGroup(controls, {asyncValidators, updateOn, validators});\n }\n\n /**\n * @description\n * Construct a
new `FormControl` with the given state, validators and options.\n *\n * @param formState Initializes the control
with an initial state value, or\n * with an object that contains both a value and a disabled status.\n *\n * @param
validatorOrOpts A synchronous validator function, or an array of\n * such functions, or an
`AbstractControlOptions` object that contains\n * validation functions and a validation trigger.\n *\n * @param
asyncValidator A single async validator or array of async validator\n * functions.\n *\n * @usageNotes\n *\n
* ### Initialize a control as disabled\n *\n * The following example returns a control with an initial value in a
disabled state.\n *\n * <code-example path=\"forms/ts/formBuilder/form_builder_example.ts\" region=\"disabledcontrol\">\n * </code-example>\n */\n control(\n
formState: any, validatorOrOpts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {\n return new FormControl(formState,
validatorOrOpts, asyncValidator);\n }\n\n /**\n * Constructs a new `FormArray` from the given array of
configurations,\n * validators and options.\n *\n * @param controlsConfig An array of child controls or control
configs. Each\n * child control is given an index when it is registered.\n *\n * @param validatorOrOpts A
synchronous validator function, or an array of\n * such functions, or an `AbstractControlOptions` object that
contains\n * validation functions and a validation trigger.\n *\n * @param asyncValidator A single async
validator or array of async validator\n * functions.\n */\n array(\n
controlsConfig: any[],\n
validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray {\n const controls = controlsConfig.map(c =>
this._createControl(c));\n return new FormArray(controls, validatorOrOpts, asyncValidator);\n }\n\n /**
@internal */\n _reduceControls(controlsConfig: {[k: string]: any}): {[key: string]: AbstractControl} {\n const
controls: {[key: string]: AbstractControl} = {};\n Object.keys(controlsConfig).forEach(controlName => {\n

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Émangular_package_forms_forms_u_formGroupNameProvider as Émangular_package_forms_forms_t from './src/directives/reactive_directives/form_group_name'.

export {SELECT_VALUE_ACCESSOR as Émangular_package_forms_forms_v from './src/directives/select_control_value_accessor'.

export {NgSelectMultipleOption as Émangular_package_forms_forms_w, SELECT_MULTIPLE_VALUE_ACCESSOR as Émangular_package_forms_forms_w from './src/directives/select_multiple_control_value_accessor'.

export {CHECKBOX_REQUIRED_VALIDATOR as Émangular_package_forms_forms_w, EMAIL_VALIDATOR as Émangular_package_forms_forms_w, MAX_LENGTH_VALIDATOR as Émangular_package_forms_forms_w, MIN_LENGTH_VALIDATOR as Émangular_package_forms_forms_w, PATTERN_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as Émangular_package_forms_forms_w as REQUIRED_VALIDATOR as 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SAAS, EAAE, CAAC; oBACV, OAAO, EAAE, kCAAkC; oBAC3C, QAAQ, EAAE, IAAI, CAAC, 4BAA4B; iBAC5C, CA AC; SACH, CAAC; KACH; :IanBU, mBAAmB; QAL/B, QAAQ, CAAC; YACR, YAAY, EAAE, CAAC, 0BAA0B, CA AC; YAC1C, SAAS, EAAE, CAAC, WAAW, EAAE, 0BAAoB, CAAC; YAC9C, OAAO, EAAE, CAACA, 0BAAyB, EA AE, 0BA0B, CAAC; SACjE, CAAC; OACW, mBAAmB, CaO/B; :IAAD, 0BAAC; CapBD; :AC5CA; :; ; GAMG; ; AC NH; ; ;; AAQA, AAOA, 0EAA0E; ; ACf1E; ; ; ; GAMG; ; ACNH; ; GAEG; ; ; ; }

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Angular
=======
The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

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/**
   * @description
   * Registers a callback function that is called when the control's value
   * changes in the
   * `value` parameter.
   * 
   * The following example writes a value to the native DOM element.
   *
   * @usageNotes
   * 
   * @param obj The new value for the element
   */
  writeValue(obj: any): void;

  ```
  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value',
  ```

  ```
  * Write a value to the element
  *
  * The following example writes a value to the native DOM element.
  *
  * ```
  *   writeValue(value: any): void {
  *     // This is where you would write the value to the DOM element.
  *   }
  * ```

  Defines an interface that acts as a bridge between the Angular forms API and a
  native element in the DOM. It is used to implement custom form control directives that
  integrate with Angular forms. The `ControlValueAccessor` interface is not defined.

  To implement a custom form control directive, you can create a class that implements
  the `ControlValueAccessor` interface and register it with the Angular forms API.

  The `ControlValueAccessor` interface has the following methods:

  - `writeValue(value: any): void`
    - Writes a new value to the element.

  - `onTouched()`: void
    - Invoked when the control is touched.

  - `onChanges()`: void
    - Invoked when the control is changed.

  By implementing this interface, you can customize the behavior of your form control
  directive to suit your needs.

  Example:

  ```typescript
  import { Component, OnInit } from '@angular/core';
  import { FormBuilder, FormGroup, Validators } from '@angular/forms';

  @Component({
    selector: 'app-custom-control',
    templateUrl: './custom-control.component.html',
    styleUrls: ['./custom-control.component.css']
  })
  export class CustomControlComponent implements ControlValueAccessor {
    private onChange?: (value: any) => void;
    private onTouched?: () => void;

    @Input() controlValue: any;

    constructor(private fb: FormBuilder) {
      this.controlValue = this.fb
        .control('', [Validators.required, Validators.minLength(3)]);
    }

    writeValue(value: any): void {
      if (this.onChange) {
        this.onChange(value);
      }
    }

    onTouched(): void {
      if (this.onTouched) {
        this.onTouched();
      }
    }

    onChanges(): void {
      if (this.onChange) {
        this.onChange(this.controlValue.value);
      }
    }
  }
  ```

  In this example, the `CustomControlComponent` class implements the
  `ControlValueAccessor` interface and uses the Angular forms API to create
  a custom form control directive. The `onChanges()` method is called when
  the control's value changes, and the `writeValue()` method is called when
  the control's value is set.

  By implementing the `ControlValueAccessor` interface, you can create
  custom form control directives that integrate with Angular forms.

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  https://angular.io/license
This method is called by the forms API on initialization to update the form's model when values propagate from the view to the model. When implementing the `registerOnChange` method in your own value accessor, save the given function so your class calls it at the appropriate time.

The following example shows the provided function as an internal method.

```ts
registerOnChange(fn: (_: any) => void): void {
  this._onChange = fn;
}
```

Registers a callback function is called by the forms API on initialization to update itself.

```ts
host: {
  (change): `_onChange($event.target.value)`
}
```

The callback function to register a function on blur.

```ts
registerOnTouched((fn: any): void {
  this._onTouched = fn;
})
```

The following example shows the provided function as an internal method.

```ts
registerOnTouched((fn: any): void {
  this._onTouched = fn;
})
```

On blur (or equivalent), your class should call the registered function to allow the forms API to update itself.

```ts
host: {
  (blur): `_onTouched()`
}
```

The following is an example of writing the disabled property to a native DOM element.

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

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```typescript
input element.

 * @param isDisabled The disabled value
 */

setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

/**
 * The default `ControlValueAccessor` for writing a value and listening to changes on input elements. The accessor is used by the `ControlValueAccessor`, `FormGroup`, and `FormBuilder` directives.
 * @param value The checked value
 */

.writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
}

/**
 * Registers a function called when an input event occurs on the input element.
 * @param fn The callback function
 */

registerOnChange(fn: (_: any) => void): void {
  this.onChange = fn;
}

/**
 * Registers a function called when a blur event occurs on the input element.
 * @param fn The callback function
 */

registerOnTouched(fn: () => void): void {
  this.onTouched = fn;
}

/**
 * Sets the "disabled" property on the input element.
 * @param isDisabled The disabled value
 */

setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

/**
 * The registered callback function called when a blur event occurs on the input element.
 * @param value The checked value
 */

onChange(value: any): void {
  if (!this._compositionMode || (this._compositionMode && !this._composing)) {
    this.onChange(value);
  }
}

/**
 * The registered callback function called when the control value changes.
 * @param fn The callback function
 */

registerOnTouched(fn: () => void): void {
  this.onTouched = fn;
}

/**
 * Sets the "disabled" property on the input element.
 * @param isDisabled The disabled value
 */

setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

---

The user is creating a composition string (IME events). This class implements the `ControlValueAccessor` interface for writing a value and listening to changes on input elements. It provides methods to set the input value, register change and blur callbacks, and set the disabled state of the input element.
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {Observable} from 'rxjs';\nimport {AbstractControl} from
'../model';\nimport {ValidationErrors} from './validators';\n\n/**\n * @description\n * Base class for control
directives.\n *\n * This class is only used internally in the `ReactiveFormsModule` and the `FormsModule`.\n *\n *
@publicApi\n */\nexport abstract class AbstractControlDirective {\n /**\n * @description\n * A reference to the
underlying control.\n *\n * @returns the control that backs this directive. Most properties fall through to that
instance.\n */\n abstract get control(): AbstractControl|null;\n\n /**\n * @description\n * Reports the value of
the control if it is present, otherwise null.\n */\n get value(): any { return this.control ? this.control.value : null;
}\n\n /**\n * @description\n * Reports whether the control is valid. A control is considered valid if no\n *
validation errors exist with the current value.\n * If the control is not present, null is returned.\n */\n get valid():
boolean|null { return this.control ? this.control.valid : null; }\n\n /**\n * @description\n * Reports whether the
control is invalid, meaning that an error exists in the input value.\n * If the control is not present, null is returned.\n
*/\n get invalid(): boolean|null { return this.control ? this.control.invalid : null; }\n\n /**\n * @description\n *
Reports whether a control is pending, meaning that that async validation is occurring and\n * errors are not yet
available for the input value. If the control is not present, null is\n * returned.\n */\n get pending(): boolean|null {
return this.control ? this.control.pending : null; }\n\n /**\n * @description\n * Reports whether the control is
disabled, meaning that the control is disabled\n * in the UI and is exempt from validation checks and excluded
from aggregate\n * values of ancestor controls. If the control is not present, null is returned.\n */\n get disabled():
boolean|null { return this.control ? this.control.disabled : null; }\n\n /**\n * @description\n * Reports whether the
control is enabled, meaning that the control is included in ancestor\n * calculations of validity or value. If the
control is not present, null is returned.\n */\n get enabled(): boolean|null { return this.control ? this.control.enabled
: null; }\n\n /**\n * @description\n * Reports the control's validation errors. If the control is not present, null is
returned.\n */\n get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }\n\n /**\n *
@description\n * Reports whether the control is pristine, meaning that the user has not yet changed\n * the value
in the UI. If the control is not present, null is returned.\n */\n get pristine(): boolean|null { return this.control ?
this.control.pristine : null; }\n\n /**\n * @description\n * Reports whether the control is dirty, meaning that the
user has changed\n * the value in the UI. If the control is not present, null is returned.\n */\n get dirty():
boolean|null { return this.control ? this.control.dirty : null; }\n\n /**\n * @description\n * Reports whether the
control is touched, meaning that the user has triggered\n * a `blur` event on it. If the control is not present, null is
returned.\n */\n get touched(): boolean|null { return this.control ? this.control.touched : null; }\n\n /**\n *
@description\n * Reports the validation status of the control. Possible values include:\n * 'VALID', 'INVALID',
'DISABLED', and 'PENDING'.\n * If the control is not present, null is returned.\n */\n get status(): string|null {
return this.control ? this.control.status : null; }\n\n /**\n * @description\n * Reports whether the control is
untouched, meaning that the user has not yet triggered\n * a `blur` event on it. If the control is not present, null is
returned.\n */\n get untouched(): boolean|null { return this.control ? this.control.untouched : null; }\n\n /**\n *
@description\n * Returns a multicasting observable that emits a validation status whenever it is\n * calculated for
the control. If the control is not present, null is returned.\n */\n get statusChanges(): Observable<any>|null {\n
return this.control ? this.control.statusChanges : null;\n }\n\n /**\n * @description\n * Returns a multicasting
observable of value changes for the control that emits every time the\n * value of the control changes in the UI or
programmatically.\n * If the control is not present, null is returned.\n */\n get valueChanges():
Observable<any>|null {\n return this.control ? this.control.valueChanges : null;\n }\n\n /**\n * @description\n
* Returns an array that represents the path from the top-level form to this control.\n * Each index is the string name
of the control on that level.\n */\n get path(): string[]|null { return null; }\n\n /**\n * @description\n * Resets
the control with the provided value if the control is present.\n */\n reset(value: any = undefined): void {\n if
(this.control) this.control.reset(value);\n }\n\n /**\n * @description\n * Reports whether the control with the
given path has the error specified.\n *\n * @param errorCode The code of the error to check\n * @param path A
list of control names that designates how to move from the current control\n * to the control that should be queried
for errors.\n *\n * @usageNotes\n * For example, for the following `FormGroup`:\n *\n * ```\n * form = new

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FormGroup({
   * address: new FormGroup({
   * street: new FormControl() })
   * })
   * The path to the 'street' control from the root form would be 'address' -> 'street'.
   * It can be provided to this method in one of two formats:
   * An array of string control names, e.g. `["address", "street"]`
   * A period-delimited list of control names in one string, e.g. `"address.street"`
   * If no path is given, this method checks for the error on the current control.
   * `returns` whether the given error is present in the control at the given path.
   * If the control is not present, false is returned.
   * hasError(errorCode: string, path?:
   * ```
   * The path to the 'street' control from the root form would be 'address' -> 'street'.
   * It can be provided to this method in one of two formats:
   * An array of string control names, e.g. `["address", "street"]`
   * A period-delimited list of control names in one string, e.g. `"address.street"`
   * If no path is given, this method checks for the error on the current control.
   * `returns` whether the given error is present in the control at the given path.
   * If the control is not present, false is returned.
   * ```

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

function unimplemented(): any {
  throw new Error('unimplemented');
}

/**
 * A base class for directives that contain multiple registered instances of `NgControl`. Only used by the forms module.
 * A base class for directives that contain multiple registered instances of `NgControl`. Only used by the forms module.
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * The parent form for the control.
   */
  _parent: ControlContainer|null = null;

  /**
   * The name for the control
   */
  name: string|number|null = null;

  /**
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor|null = null;

  /**
   * The uncomposed array of synchronous validators for the control
   */
  _rawValidators: Array<Validator|ValidatorFn> = 

  /**
   * The registered synchronous validator function for the control
   */
  synchronousValidator: Function = null;

  /**
   * The callback method to update the model from the view when requested
   */
  viewToModelUpdate(newValue: any): void;

  /**
   * The uncomposed array of asynchronous validators for the control
   */
  _rawAsyncValidators: Array<AsyncValidator|AsyncValidatorFn> = 

  /**
   * The registered asynchronous validator function for the control
   */
  asynchronousValidator: Function = null;

  /**
   * The callback method to update the model from the view when requested
   */
  viewToModelUpdate(newValue: any): void;

  /**
   * The unimplemented synchronous validator function for the control
   */
  synchronousValidator = unimplemented();

  /**
   * The unimplemented synchronous validator function for the control
   */
  synchronousValidator = unimplemented();

  /**
   * The callback method to update the model from the view when requested
   */
  viewToModelUpdate(newValue: any): void;

  /**
   * The unimplemented asynchronous validator function for the control
   */
  asynchronousValidator = unimplemented();

  /**
   * The callback method to update the model from the view when requested
   */
  viewToModelUpdate(newValue: any): void;
periods (`.`).

- A `label` cannot begin or end with a dash (`-`) or a period (`.`).
- The whole address cannot be longer than 254 characters.

## Implementation

This regexp was ported over from AngularJS (see there for git history):[1]

```javascript
const EMAIL_REGEXP =
    /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~\-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~\-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9-]{0,61})[0-9a-zA-Z-9]$/;
```

### Validators

- **min(min: number): ValidatorFn**
  - `control: AbstractControl)`
  ```javascript
  return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
  ```

- **max(max: number): ValidatorFn**
  - `control: AbstractControl)`
  ```javascript
  return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;
  ```

- **required(control: AbstractControl): ValidationErrors|null**
  ```javascript
  return isEmptyInputValue(control.value) ? {'required': true} : null;
  ```

- **requiredTrue(control: AbstractControl): ValidationErrors|null**
  ```javascript
  return isEmptyInputValue(control.value) ? {'required': true} : null;
  ```

- **isEmptyInputValue(value)**
  ```javascript
  return !isVisibleInputValue(control.value) || isEmptyInputValue(min);  // don't validate empty values to allow optional controls
  ```

- **is NaN**
  ```javascript
  return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
  ```

## Example

```typescript
const control = new FormControl(2, Validators.min(3));

console.log(control.errors); // {min: {min: 3, actual: 2}}
```
Validator that requires that the field matches a valid email pattern

```typescript
const control = new FormControl('bad@', Validators.email);
console.log(control.errors); // {email: true}
```

@returns An error map with the `email` property

* pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

```typescript
const control = new FormControl('bad@', Validators.pattern('[a-zA-Z\s]@\w+\.(com|net|org|edu|gov)');
```

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z\s]*$', actualValue: '1'}}

### Validate that the field only contains letters or spaces

```html
<input pattern="^[a-zA-Z\s]*">
```

### Validate that the field only contains letters or spaces

```html
<input pattern="^[a-zA-Z\s]*">
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('Angular', Validators.minLength(3));
console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 7}}
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('Angular', Validators.minLength(3));
console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 7}}
```

```typescript
return EMAIL_REGEXP.test(control.value) ? null : ({email: true});
```

### Validate that the field has a minimum of 3 characters

```typescript
return EMAIL_REGEXP.test(control.value) ? null : ({email: true});
```

```typescript
const control = new FormControl('bad@', Validators.email);
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('bad@', Validators.email);
```

```typescript
console.log(control.errors); // {email: true}
```

### Validate that the field has a minimum of 3 characters

```typescript
console.log(control.errors); // {email: true}
```

### Validate that the field has a minimum of 3 characters

```typescript
console.log(control.errors); // {email: true}
```

### Validate that the field has a minimum of 3 characters

```typescript
console.log(control.errors); // {email: true}
```

### Validate that the field has a minimum of 3 characters

```typescript
console.log(control.errors); // {email: true}
```

### Validate that the field has a minimum of 3 characters

```typescript
console.log(control.errors); // {email: true}
```

### Validate that the field has a minimum of 3 characters

```typescript
console.log(control.errors); // {email: true}
```

```typescript
console.log(control.errors); // {email: true}
```
RegExp;
    let regexStr: string;
    if (typeof pattern === 'string') {
      regexStr = '';

      if (pattern.charAt(0) != '^') regexStr += '^';

      regexStr += pattern;

      if (pattern.charAt(pattern.length - 1) != '$') regexStr += '$';

      regex = new RegExp(regexStr);  }
  }

  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const value: string = control.value;
    return regex.test(value) ? null :
                      {'pattern': {'requiredPattern': regexStr,
                                   'actualValue': value}};
  };

  /**
   * @description
   * Validator that performs no operation.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static nullValidator(control: AbstractControl): ValidationErrors|null {
    return null;
  }

  /**
   * @description
   * Compose multiple validators into a single function that returns the
   * union of the individual error maps for the provided control.
   *
   * @returns A validator function that returns an error map with the
   * merged error maps of the validators if the validation check fails, otherwise
   * null.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static compose(validators: (ValidatorFn|null|undefined)[]): ValidatorFn|null {
    if (!validators) return null;
    const presentValidators: ValidatorFn[] = validators.filter(isPresent) as any;
    if (presentValidators.length == 0) return null;

    return function(control: AbstractControl) {
      return _mergeErrors(_executeValidators(control, presentValidators));
    };

  }

  function isPresent(o: any): boolean {
    return o != null;
  }

  export function toObservable(r: any): Observable<any> {
    const obs = isPromise(r) ? from(r) : r;
    if (!(isObservable(obs))) {
      throw new Error(`Expected validator to return Promise or Observable.`);
    }
    return obs;
  }

  function _executeValidators(control: AbstractControl, validators: ValidatorFn[]): any[] {
    return validators.map(v => v(control));
  }

  function _executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]): any[] {
    return validators.map(v => v(control));
  }

  function _mergeErrors(arrayOfErrors: ValidationErrors[]): ValidationErrors|null {
    let res: {
      [key: string]: any
    } = {};

    // Not using Array.reduce here due to a Chrome 80 bug
    // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
    arrayOfErrors.forEach((errors: ValidationErrors | null) => {
      res = errors != null ? {...res !, ...errors} : res !;
    });

    return Object.keys(res).length === 0 ? null : res !;
  }

  /**
   * @license
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   *
   * Use of this source code is governed by an MIT-style license that can be
   * found in the LICENSE file at https://angular.io/license
   */

  import {AbstractControl} from '../model';
  import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

  export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
    if ((<Validator>validator).validate) {
      return (c: AbstractControl) => (<Validator>validator).validate(c);
    } else {
      return <ValidatorFn>validator;
    }
  }

  export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {
    if ((<AsyncValidator>validator).validate) {
      return (c: AbstractControl) => (<AsyncValidator>validator).validate(c);
    } else {
      return <AsyncValidatorFn>validator;
    }
  }

  /**
   * @license
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   * Use of this source code is governed by an MIT-style license that can be
   * found in the LICENSE file at https://angular.io/license
   */

  import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';
  import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

  export const NUMBER_VALUE_ACCESSOR: any = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: forwardRef(() => NumberValueAccessor),
    multi: true
  };

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number input changes.

The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel` directives.

Using a number input with a reactive form:

The following example shows how to use a number input with a reactive form.

```typescript
const totalCountControl = new FormControl();

@Directive({
  selector: '[formControlName], [formControl], [ngModel]',
  providers: [ValueAccessor]
})
export class NumberValueAccessor implements ValueAccessor {
  constructor(private renderer: Renderer2, private elementRef: ElementRef) {
    this.writeValue(0);
  }

  writeValue(value: number): void {
    this.renderer.setProperty(this.elementRef.nativeElement, 'value', value);
  }

  registerOnChange(fn: (_: number) => void): void {
    this.onChanges = fn;
  }

  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }
}
```

The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel` directives.

### Using a number input with a reactive form.

The following example shows how to use a number input with a reactive form.

```typescript
const totalCountControl = new FormControl();
```

```html
<input type="number" [formControl]="totalCountControl">
```

送货。
export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _state !: boolean;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _control !: NgControl;
  /** @description */
  // Tracks the name of the radio input element.
  onInit: OnInit
  /** @description */
  // TODO(issue/24571): remove '!'.
  @Input() name !: string;
  /** @description */
  // Tracks the name of the `FormControl` bound to the directive. The name corresponds to a key in the parent 'FormGroup' or 'FormArray'.
  onStateChange: OnStateChange
  /** @description */
  // TODO(issue/24571): remove '!'.
  @Input('formControlName') !: string;
  /** @description */
  // Tracks the value of the radio input element.
  onInputChange: OnInputChange
  /** @description */
  // TODO(issue/24571): remove '!'.
  @Input() value: any;
  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {}

  /** */
  // Lifecycle method called when the directive is initialized. For internal use only.
  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
  }

  /** */
  // Lifecycle method called before the directive's instance is destroyed. For internal use only.
  ngOnDestroy(): void {
    this._registry.remove(this);
  }

  /** */
  // Sets the "checked" property on the radio input element.
  setChecked(value: boolean): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
  }

  /** */
  // Registers a function called when the control value changes.
  registerOnChange(fn: (_: any) => {}): void {
    this._fn = fn;
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };
  }

  /** */
  // Sets the "value" on the radio input element and unchecks it.
  fireUncheck(value: any): void {
    this.writeValue(value); }
onTouched()}}

export class RangeValueAccessor implements ControlValueAccessor {
  /**
   * The registered callback function called when a change or input event occurs on the input element.
   * The registered callback function called when a blur event occurs on the input element.
   */
  onChange = () => {};

  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
  }

  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}

/**
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 *
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 */

export const FormErrorExamples = {
  formControlName: `
    <div 
        formControlName="firstName">
    </div>

    In your class:

    this.myGroup = new FormGroup({
       firstName: new FormControl()
    });`,

  formGroupName: `
    <div 
        formGroupName="person">
          <input formControlName="firstName">
       </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
       person: new FormGroup({ firstName: new FormControl() })
    });

  formArrayName: `
    <div 
        formArrayName="cities">
          <input 
            formControlName="i">
    </div>

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });`,

  ngModelGroup: `
    <form>
       <div ngModelGroup="person">
          <input [(ngModel)]="person.name" name="firstName">
       </div>
    </form>`,

  ngModelWithFormGroup: `
    <div
        formGroup="myGroup">
       <input formControlName="firstName">
       <input
          [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">
    </div>
  `}

import {FormErrorExamples as Examples} from './error_examples';

export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).

Example:

${Examples.formControlName}`);
  }

  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

Example: Option 1: Update the parent to be formGroupName (reactive form strategy)

Example: Option 2: Use ngModel instead of formControlName (template-driven strategy)

Example: static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.

Example:`);
  }

  static groupParentException(): void {
    throw new Error(`formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).

Example:`);
  }

  static arrayParentException(): void {
    throw new Error(`formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).

Example:`);
  }

  static disabledAttrWarning(): void {
    console.warn(`
      It looks like
      ...
    `);
  }

  static FormErrorExamples as Examples} from '../error_examples';

Option 1: Update the parent to be formGroupName (reactive form strategy)

Option 2: Use ngModel instead of formControlName (template-driven strategy)

static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.

Example:`);
  }

Template-driven strategy:

Example:`;
you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

Example:

```javascript
form = new FormGroup({
  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
  last: new FormControl('Drew', Validators.required)
});
```

Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.

For more information on this, see our API docs here:

https://angular.io/api/forms/"FormControlName"#use-with-ngmodel

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@publicApi
@ngModule ReactiveFormsModule
@ngModule FormsModule

@Directive({
  selector:
    'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]',
  host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},
  providers: [SELECT_VALUE_ACCESSOR]
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;

  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  constructor(private formControl: FormControl, private elementRef: ElementRef, private renderer: Renderer2) {
    formControl.valueChanges.subscribe(data => this.onChange(data));
    formControl.valueChanges.pipe(takeUntil(this.unsubscribe)).subscribe(data => this.onChange(data));
  }

  writeValue(value: any) {
    this.value = value;
  }

  registerOnChange(fn: any) {
    this.onChange = fn;
  }

  registerOnTouched(fn: any) {
    this.onTouched = fn;
  }

  setDisabledState(isDisabled: boolean) {
    this.value = isDisabled ? null : this.value;
    this.writeValue(this.value);
  }

  static ngModelWarning(directiveName: string): void {
    console.warn(`
    It looks like you're using ngModel on the same form field as ${directiveName}. 
    Support for using the ngModel input property and ngModelChange event with 
    reactive form directives has been deprecated in Angular v6 and will be removed 
    in Angular v7.
    
    For more information on this, see our API 
    docs here:
    https://angular.io/api/forms/${directiveName === 'formControl' ? 'FormControlDirective' : 'FormControlName'}#use-with-ngmodel
    `);
  }
}

identities when * checking for changes.

 */
    * @Input()
    set compareWith(fn: (o1: any, o2: any) => boolean)
    { fn if (typeof fn !== ‘function’) { throw new Error(‘compareWith must be a function, but received
    ${JSON.stringify(fn)}’); } this_this_compareWith = fn; }
  private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the ‘value’ property on the input element. The ‘%selectedIndex%’ * property is also set if an ID is
   * provided on the option element. * * @param value The checked value
   * @Input()
   * @param fn
   * callback function(x: (value: any) => any)
   */
  writeValue(value: any): void {
    this.value = value;
    const id: string|null = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, ‘selectedIndex’, -1);
    }
    const valueString = 
    this._renderer.setProperty(this._elementRef.nativeElement, ‘value’, valueString);
  }

  /**
   * @description
   * Registers a function called when the value changes.
   * @param fn
   * The callback function(x: (value: any) => any)
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   * @param fn
   * The callback function(x: () => any)
   */
  registerOnTouched(fn: () => any): void { this.onTouched = fn;
  }

  /**
   * Sets the ‘disabled’ property on the select input element.
   * * @param isDisabled
   * @Input()
   * @param fn
   * The callback function(x: () => any)
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, ‘disabled’, isDisabled);
  }

  /** @internal */
  _registerOption(): string { return (this._idCounter++).toString();
  }

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id), value)) return id;
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    const id: string =
    _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
  }

  /**
   * @description
   * Marks `<option>` as dynamic, so Angular can be notified when options change.
   * @see `SelectControlValueAccessor`
   * @ngModule ReactiveFormsModule
   * @ngModule FormsModule
   * @publicApi
   */
  @Directive({selector: ‘option’})
  export class NgSelectOption implements OnDestroy {
    /**
     * ID of the option element
     */
    // TODO(issue/24571): remove ‘!’. id !: string;

    constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectControlValueAccessor) {
      if (this._select) this.id = this._select._registerOption();
    }

    /**
     * Tracks simple string values bound to the option element.
     * For objects, use the ‘ngValue’ input binding.
     */
    @Input(‘ngValue’)
    set ngValue(value: any) {
      this._setElementValue(value);
      if (this._select) this._select.writeValue(this._select.value);
    }

    /**
     * Lifecycle method called before the directive’s instance is
     * destroyed. For internal use only.
     */
    @license
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    * Use of this source code is governed by an MIT-style license that can be
    * found in the LICENSE file at https://angular.io/license
    */
    import {Directive, ElementRef, Host, Input, OnDestroy,Optional, Renderer2, StaticProvider, forwardRef, looseIdentical from ‘angular/core’;

    function _buildValueString(id: string, value: any): string {
      if (id == null) return ‘\${value}’;
      if (typeof value !== ‘string’) value = ‘\${value}’;
      if (value & typeof value !== ‘object’) value = ‘Object’;
      return ‘\${id}: \${value}’.slice(0, 50);
    }

    function _extractId(valueString: string): string {
      return valueString.split(‘:’)[0];
    }

    Mock interface for HTML Options
    * @interface HTMLOption
    * @abstract class HTMLCollection
    {
    Open Source Used In MSX Platform Services 4.0.0  6491
The `ControlValueAccessor` for writing multi-select control values and listening to multi-select control value changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives. @see `SelectControlValueAccessor` @usageNotes

```ts
const countryControl = new FormControl();
```
const id: string = _extractId(valueString); return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;

/**
 * @description
 * Tracks the value bound to the option element. Unlike the value binding,
 * ngValue supports binding to objects.
 */
this._value = value;

/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
ngOnDestroy(): void {
  if (this._select) {
    this._select.writeValue(this._select.value);
  }
}

export function controlPath(name: string | null, parent: ControlContainer): string[] {
  return [...parent.path!, name!];
}

export function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');
  if (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');

  control.validator = Validators.compose([control.validator!, dir.validator!]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator!, dir.asyncValidator!]);
  dir.valueAccessor!.writeValue(control.value);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);

  setUpBlurPipeline(control, dir);

  if (dir.valueAccessor!.setDisabledState) {
    control.registerOnDisabledChange((isDisabled: boolean) => { dir.valueAccessor!.setDisabledState(isDisabled); });
  }

  // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  dir._rawValidators.forEach((validator: Validator | ValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (<Validator>validator).registerOnValidatorChange(() =>
        if (dir.valueAccessor_.throwErrorError(dir, 'No value accessor for form control with'))
          dir.control.validator = Validators.compose([dir.validator!, dir.valueAccessor!]);
      });
}

export function setUpModelChangePipeline(control: FormControl, dir: NgControl) { dir.valueAccessor!.setUpModelChangePipeline(control); dir.valueAccessor!.setUpBlurPipeline(control); dir.valueAccessor!.setUpViewChangePipeline(control); dir.valueAccessor!.setUpFocusPipeline(control); dir.valueAccessor!.setUpCssClassChangePipeline(control); dir.valueAccessor!.setUpStyleClassChangePipeline(control); dir.valueAccessor!.setUpPlaceholderChangePipeline(control); dir.valueAccessor!.setUpImageUrlChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpMaxInputLengthChangePipeline(control); dir.valueAccessor!.setUpMinInputLengthChangePipeline(control); dir.valueAccessor!.setUpImageSourceChangePipeline(control); dir.valueAccessor!.setUpInputPatternChangePipeline(control); dir.valueAccessor!.setUpDisabledChangePipeline(control); dir.valueAccessor!.setUpReadOnlyChangePipeline(control); dir.valueAccessor!.setUpRequiredChangePipeline(control); dir.valueAccessor!.setUpDefaultChangePipeline(control);

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccessor!.setUpReadOnlyChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpRequiredChangePipeline) {
    dir.valueAccessor!.setUpRequiredChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDefaultChangePipeline) {
    dir.valueAccessor!.setUpDefaultChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpInputTypeChangePipeline) {
    dir.valueAccessor!.setUpInputTypeChangePipeline(control); dir.valueAccessor!.setUpInputTypeChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpDisabledChangePipeline) {
    dir.valueAccessor!.setUpDisabledChangePipeline(control);
  }

  if (dir.valueAccessor!.setUpReadOnlyChangePipeline) {
    dir.valueAccess...
ControlValueAccessor|undefined = undefined; let customAccessor: ControlValueAccessor|undefined = undefined;

valueAccessors.forEach(v => {
  if (v.constructor === DefaultValueAccessor) {
    defaultAccessor = v;
  } else if (isBuiltInAccessor(v)) {
    builtinAccessor = v;
  } else {
    if (customAccessor)
      _throwError(dir, 'More than one custom value accessor matches form control with');
    customAccessor = v;
  }
}),

if (builtinAccessor) return builtinAccessor;
if (defaultAccessor) return defaultAccessor;

if (_throwError(dir, 'No valid value accessor for form control with'))
  return null;

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
export function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license
 * that can be found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';

/**
 * Reports that a FormControl is valid, meaning that no errors exist in the input value.
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and errors are not yet available for the input value.
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor calculations of validity or value.
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  // Not using Array.reduce here due to a Chrome 80 bug:
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] :
          null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn|null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
           (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn |
      ValidatorFn | null;

  return Array.isArray(validator) ?
      composeValidators(validator) : validator;
}

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |
        ValidatorFn | null) {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
           (validatorOrOpts as AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
      AsyncValidatorFn |
      null;

  return Array.isArray(asyncValidator) ?
      composeAsyncValidators(validatorOrOpts as AbstractControlOptions).asyncValidators |
      origAsyncValidator :
      composeAsyncValidators(validatorOrOpts as AbstractControlOptions).asyncValidators |
      origAsyncValidator;
}

Open Source Used In MSX Platform Services 4.0.0 6485
@description
* The list of async validators applied to control.
* @param asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;  /** @description * The event name for control to update upon.
* @param updateOn?: 'change'|'blur'|'submit'|'null'; */

function isOptionsObj(
    validatorOrOpts?: ValidatorFn
    | ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null &&
      typeof validatorOrOpts !== 'object';
}

/**
 * This is the base class for 'FormControl', 'FormGroup', and 'FormArray'.
 * It includes some of the shared behavior that all controls and groups of controls
 * have, like * running validators, calculating status, and resetting state. It also
 * defines the properties that are shared between all sub-classes, like `value`, `valid`,
 * `dirty`. It shouldn't be instantiated directly.
*/
export abstract class AbstractControl {
  /** @internal */
  _pendingDirty !: boolean;

  /** @internal */
  _pendingTouched !: boolean;

  _onCollectionChange = () => {};

  /** @internal */
  _updateOn !: FormHooks;

  /**
   * The current value of the control.
   */
  public readonly value: any;

  constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}

  /**
   * The parent control.
   */
  get parent(): FormGroup|FormArray { return this._parent; }

  /**
   * A control is `valid` when its `status` is `VALID`.
   *
   * @returns True if the control has passed all of its validation tests,
   * false otherwise.
   */
  get valid(): boolean { return this.status === VALID; }

  /**
   * A control is `invalid` when its `status` is `INVALID`.
   *
   * @returns True if this control has failed one or more of its validation checks,
   * false otherwise.
   */
  get invalid(): boolean { return this.status === INVALID; }

  /**
   * A control is `pending` when its `status` is `PENDING`.
   *
   * @returns True if the control is in the process of conducting a validation check,
   * false otherwise.
   */
  get pending(): boolean { return this.status == PENDING; }

  /**
   * A control is `disabled` when its `status` is `DISABLED`.
   *
   * @returns True if the control has any status other than `DISABLED`, false if the status
   * is `DISABLED`.
   */
  get disabled(): boolean { return this.status !== DISABLED; }

  /**
   * A control is `pristine` if the user has not yet changed the value in the UI.
   *
   * @returns True if the user has not yet changed the value in the UI, false otherwise.
   */
  get pristine(): boolean { return this.status !== PENDING; }

  /**
   * A control is `dirty` if the user has changed the value.
   *
   * @returns True if the user has changed the value of this control.
   */
in the UI; compare `pristine`

* Programmatic changes to a control’s value do not mark it dirty.

* `get

`dirty()`:

 boolean { return !this.pristine; }

 /** * True if the control is marked as ‘touched’.

* A control is marked ‘touched’ once the user has triggered

* `touched` event on it.

 */

 public readonly touched: boolean = false;

 /** * True if the control has not been marked as touched.

* A control is ‘untouched’ if the user has not yet triggered

* a ‘touched’ event on it.

 */

 public untouched: boolean = false;

 /**

 * A multicasting observable that emits an event every time the value of the control changes.

 */

 // TODO(issue/24571): remove ‘!’. Public readonly valueChanges!

 Observables<any>: Observable<any> * A multicasting observable that emits an event every time the validation ‘status’ of the control recalculates.

 /* @ see [link AbstractControl.status]

 */

 // TODO(issue/24571): remove ‘!’. Public readonly statusChanges!

 Observables<any>: Observable<any> * Reports the update strategy of the `AbstractControl` (meaning

 the event on which the control updates itself).

 Possible values: ‘change’ | ‘blur’ | ‘submit’ * Default value: ‘change’ * `get updateOn()`:

 FormHooks

 * Sets the synchronous validators that are active on this control.

 Calling

 * this overwrites any existing sync validators.

 * When you add or remove a validator at run time, you must call `setValidators()` for the new

 validation to take effect.

 */

 public readonly valueChanges!: Observable<any>;

 /**

 * A multicasting observable that emits an event every time the

 validation `status` of the control recalculates.

 */

 // TODO(issue/24571): remove ‘!’. Public readonly statusChanges!

 Observables<any>: Observable<any> * @ see [link AbstractControl.status]

 */

 /**

 * A multicasting observable that emits an event every time

 the control's value is changed, in

 the UI or

 programmatically. It also emits an event each time you call

 `enable()` or `disable()` without passing along

 `{emitEvent: false}` as a function argument.

 */

 public readonly valueChanges!: Observable<any>;

 /**

 * A multicasting observable that emits an event every time the

 validation `status` of the control recalculates.

 */

 // TODO(issue/24571): remove ‘!’. Public readonly statusChanges!

 Observables<any>: Observable<any> * Reports the update strategy of the `AbstractControl` (meaning

 the event on which the control updates itself).

 Possible values: ‘change’ | ‘blur’ | ‘submit’ * Default value: ‘change’ * `get updateOn()`:

 FormHooks

 * Sets the synchronous validators that are active on this control.

 Calling

 * this overwrites any existing sync validators.

 * When you add or remove a validator at run time, you must call `setValidators()` for the new

 validation to take effect.

 */

 public readonly valueChanges!: Observable<any>;

 /**

 * A multicasting observable that emits an event every time the

 validation `status` of the control recalculates.

 */

 // TODO(issue/24571): remove ‘!’. Public readonly statusChanges!

 Observables<any>: Observable<any> * @ see [link AbstractControl.status]

 */

 /**

 * Marks the control as ‘touched’. A control is touched by focus and

 blur events that do not change the

 value.

 * @ see `markAsUntouched()`

 * @ see `markAsDirty()`

 * @ see `markAsPristine()`

 * @param options Configuration options that determine how the control propagates changes

 * and emits events after marking is applied.

 * * `onlySelf`: When true, mark only this control. When false or not supplied,

 * marks all direct ancestors. Default is false.

 */

 markAsTouched(): void {

 (this as{touched: boolean}).touched = true;

 if (this._parent && !options.onlySelf) {

 (this as{touched: boolean}).touched = true;

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

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 (control: AbstractControl) => control.markAsTouched();

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 (control: AbstractControl) => control.markAsTouched();

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 (control: AbstractControl) => control.markAsTouched();

 };

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 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);

 this._forEachChild:

 (control: AbstractControl) => control.markAsTouched();

 };

 this._updateTouched(options);
```typescript
ancestors. Default is false.

  markAsDirty(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = false;
    if (this._parent && !opts.onlySelf) {
      this._parent.markAsDirty(opts);
    }
  }

  markAsDirty = this.markAsDirty;

  markAsPristine(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = true;
    this._pendingDirty = false;
    this._forEachChild((control: AbstractControl) => { control.markAsPristine({onlySelf: true}); });
    if (this._parent && !opts.onlySelf) { this._parent.markAsPristine(opts); }
  }

  markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    (this as{status: string}).status = PENDING;
    if (opts.emitEvent !== false) {
      (this.valueChanges as EventEmitter<any>).emit(this.value);
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(true));
  }

  enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    // If parent has been marked artificially dirty we don't want to re-calculate the
    // parent's dirtiness based on the children.
    const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
    (this as{status: string}).status = VALID;
    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(false));
  }
```

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```typescript
(getActivity: boolean, skipPristineCheck?: boolean) { this._parent && !opts.onlySelf } 

getValueAndValidity(onlySelf?: boolean, emitEvent?: boolean, skipPristineCheck?: boolean) {
    if (this._parent && !opts.onlySelf) {
      this._parent.updateValueAndValidity(opts);
      if (!opts.skipPristineCheck) {
        this._parent._updatePristine();
      }
      this._parent._updateTouched();
    }

  } * Sets the value of the control. Abstract method (implemented in sub-classes).

abstract setValue(value: any, options?: Object): void;
abstract patchValue(value: any, options?: Object): void;
abstract reset(value?: any, options?: Object): void;

  /**
   * @param parent
   * Sets the parent of the control
   */
  setParent(parent: FormGroup|FormArray): void { this._parent = parent; }

/**
   * @description
   * Reports error data for the control with the given path. This can be used to get the control.
   * @param path A dot-delimited string or array of string/number values that define the path to the control.
   * @param name The name of the control.
   * @param description The description of the control.
   * @param errors The errors associated with the control.
   */
  reportError(path: string, name: string, description: string, errors: ValidationErrors | null): void {
    const Ctrl = this._getCtrl(path);
    if (Ctrl) {
      Ctrl.setErrors(errors, {emitEvent: true});
      Ctrl.setPristine({reset: true, emitEvent: true});
    }
  }

  /**
   * Retrieves a child control given the control's name or path.
   * For example, to get the 'name' control nested within a 'person' sub-group:
   * `this.form.get('person.name');`
   */
  get(path: string | string[]): AbstractControl {
    return _find(this, path, '.');
  }
```
of two formats:

- An array of string control names, e.g. `[‘address’, ‘street’]`
- A period-delimited list of control names in one string, e.g. ‘address.street’

- `1. An array of string control names, e.g. `[‘address’, ‘street’]` (1)
- `1. A period-delimited list of control names in one string, e.g. ‘address.street’` (1)

- `*` The path to the ‘street’ control from the root form would be ‘address’ -> ‘street’.

- `*` A period-delimited list of control names in one string, e.g. ‘address.street’

- `*` @returns error data for that particular error. If the control or error is not present, null is returned.

- `*` @param errorCode The code of the error to check

- `*` @returns whether the given error is present in the control at the given path.

- `*` If the control is not present, false is returned.

- `*` hasError(errorCode: string, path?: Array<string|number>|string): boolean

- `*` Reports whether the control with the given path has the error specified.

- `*` @returns error data for that particular error. If the control or error is not present, null is returned.

- `*` @description

- `*`Reports whether the control with the given path has the error specified.

- `*` If no path is given, this method checks for the error on the current control.

- `*` If the control is not present, false is returned.

- `*` Returns whether the given error is present in the control at the given path.

- `*` If the control is not present, false is returned.

- `*` hasError(errorCode: string, path?: Array<string|number>|string): boolean

- `*` Reports whether the control with the given path has the error specified.

- `*` If no path is given, this method checks for the error on the current control.

- `*` Returns whether the given error is present in the control at the given path.

- `*` If the control is not present, false is returned.

- `*` hasError(errorCode: string, path?: Array<string|number>|string): boolean

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- `*` If no path is given, this method checks for the error on the current control.

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- `*` hasError(errorCode: string, path?: Array<string|number>|string): boolean

- `*` Reports whether the control with the given path has the error specified.

- `*` If no path is given, this method checks for the error on the current control.

- `*` Returns whether the given error is present in the control at the given path.

- `*` If the control is not present, false is returned.
Open Source Used In MSX Platform Services 4.0.0  6501

```typescript
const control = new FormControl('some value');
console.log(control.value);     // 'some value'
```

The following example initializes the control with a sync validator:

```typescript
const control = new FormControl({ value: 'n/a', disabled: true });
```

The following example initializes the control with a form state object:

```typescript
const control = new FormControl({ value: 'n/a', disabled: true });
```

The following example initializes the control using an options object:

```typescript
const control = new FormControl('', { validators: Validators.required });
```

The following example initializes the control using a form state object:

```typescript
const control = new FormControl({ value: 'n/a', disabled: true });
```

### Initializing Form Controls

Instantiate a `FormControl`, with an initial value:

```typescript
const control = new FormControl('some value');
```

### Configure the control to update on a blur event:

```typescript
const control = new FormControl('', { updateOn: 'blur' });
```

### Configure the control to update on a submit event:

```typescript
const control = new FormControl('', { updateOn: 'submit' });
```

### Reset the control back to an initial value:

```typescript
control.reset('Drew');
```

### Reset the control back to an initial value and disabled

```typescript
control.reset({ value: 'Drew', disabled: true });
```

### Form Control Options

The configuration options are passed to the `updateValueAndValidity` method:

```typescript
control.setValue(type, value, options: {
  onlySelf?: boolean,
  emitEvent?: boolean,
  emitModelToViewChange?: boolean,
  emitViewToModelChange?: boolean
} = {}): void {
  (this as{value: any}).value = this._pendingValue = value;
  (this as{value: any}).status = VALID
  this._onChange.forEach((changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));
  this._pendingValue = null;
  this._pendingChange = null;
  if (this._onChange.length) {
    this._onChange.forEach((changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));
  }
  this.updateValueAndValidity(options);
}
```
This function is functionally the same as `FormControl#setValue setValue` at this level. It exists for symmetry with `FormGroup#patchValue patchValue` on `FormGroups` and `FormArrays`, where it does behave differently. This function is functionally the same as `FormControl#setValue setValue` at this level. It exists for symmetry with `FormGroup#patchValue patchValue` on `FormGroups` and `FormArrays`, where it does behave differently. `FormGroups` and `FormArrays`, where it does behave differently.

**reset**

- Resets the form control, marking it `pristine` and `untouched`, and setting the value to null.
- `reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {})`: void

**registerOnChange**

- Registers a listener for change events.

**registerOnDisabledChange**

- Registers a listener for disabled events.

**_applyFormState**

- Applies the form state to the control.

**_updateValue**

- Updates the value of the control.

**_anyControls**

- Checks if any controls are present.

**_allControlsDisabled**

- Checks if all controls are disabled.

**_forEachChild**

- Iterates over all child controls.

**_syncPendingControls**

- Syncs pending controls.

**_isBoxedValue**

- Checks if the value is boxed.

**_markAsPristine**

- Marks the control as pristine.

**_markAsUntouched**

- Marks the control as untouched.

**_markAsDirty**

- Marks the control as dirty.

**_markAsTouched**

- Marks the control as touched.

**_getValue**

- Gets the value of the control.

**_getInvalidValue**

- Gets the invalid value of the control.

**_statusChanges**

- Tracks the status changes of the control.

**_valueChanges**

- Tracks the value changes of the control.

**_clearChangeFns**

- Clears the change function listeners.

**_Bindable**

- Represents a bindable value.

**_BindableValidators**

- Represents a bindable validator.

**_BindableAsyncValidator**

- Represents a bindable async validator.

**_BindableAsyncValidators**

- Represents a bindable async validators.

**_BindableOptions**

- Represents a bindable options.

**_BindableOptionsValidator**

- Represents a bindable options validator.

**_BindableOptionsAsyncValidator**

- Represents a bindable options async validator.

**_BindableOptionsAsyncValidators**

- Represents a bindable options async validators.

**_BindableMethods**

- Represents a bindable methods.

**_BindableMethodsValidator**

- Represents a bindable methods validator.

**_BindableMethodsAsyncValidator**

- Represents a bindable methods async validator.

**_BindableMethodsAsyncValidators**

- Represents a bindable methods async validators.

**_BindableProperties**

- Represents a bindable properties.

**_BindablePropertiesValidator**

- Represents a bindable properties validator.

**_BindablePropertiesAsyncValidator**

- Represents a bindable properties async validator.

**_BindablePropertiesAsyncValidators**

- Represents a bindable properties async validators.

**_BindableRef**

- Represents a bindable reference.

**_BindableRefValidator**

- Represents a bindable reference validator.

**_BindableRefAsyncValidator**

- Represents a bindable reference async validator.

**_BindableRefAsyncValidators**

- Represents a bindable reference async validators.

**_BindableMethodsRef**

- Represents a bindable methods reference.

**_BindableMethodsRefValidator**

- Represents a bindable methods reference validator.

**_BindableMethodsRefAsyncValidator**

- Represents a bindable methods reference async validator.

**_BindableMethodsRefAsyncValidators**

- Represents a bindable methods reference async validators.

**_BindablePropertiesRef**

- Represents a bindable properties reference.

**_BindablePropertiesRefValidator**

- Represents a bindable properties reference validator.

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**_BindableRefMethodsPropertiesRefMethodsPropertiesRefAsyncValidators**

- Represents a bindable reference methods properties reference methods properties reference async validators.
property for all controls in a form group

The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `'blur'` at the group level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `'blur'` at the group level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.

```ts
const c = new FormGroup({
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The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `'blur'` at the group level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `'blur'` at the group level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```
control value is updated.

When false, no events are emitted.

Object.keys(value).forEach(name => {
  this.controls[name].setValue(value[name], {
    onlySelf: true,
    emitEvent: options.emitEvent});
});

this.setValueAndValidity(options);

/**
 * Patches the value of the `FormGroup`. It accepts an object
 * with control
 * names as keys, and does its best to match the values to the correct controls
 * in the group.

 * It accepts both super-sets and sub-sets of the group without throwing an error.

 * Patches the value for a form group
 * last: new FormControl(name * const form = new FormGroup(
 * first: new FormControl(name * last: new FormControl(name * const form = new FormGroup(
 * last: new FormControl(name * control.setValue(value, {
 * onlySelf: options.onlySelf});
});

this.setValueAndValidity(options);

### Patch the value for a form group

```ts
const form = new FormGroup({
  first: new FormControl(),
  last: new FormControl()
});

form.patchValue({first: 'Nancy'});

console.log(form.value); // {first: 'Nancy', last: null}
```

* @param value The object that matches the structure of the group.

* @param options Configuration options that determine how the control propagates changes and emits events after the value is patched.

* onlySelf: When true, each change only affects this control and not its parent. Default is false.

* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

* When false, no events are emitted.

* The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updatevalueandanvalidity) method.

### Reset the form group values

```ts
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});

form.reset();

console.log(form.value);  // {first: 'name', last: 'last name'}

console.log(this.first.status);  // 'DISABLED'
```
The `FormArray` class is used to define an array of `FormControl` or `FormArray` instances. It aggregates the values of each child `FormControl` into an array and calculates its status by reducing the status values of its children. For example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid.

The `FormArray` class is one of the three fundamental building blocks used to define forms in Angular: `FormControl`, `FormGroup`, and `FormArray`. The other two are `AbstractControl` and `FormBuilder`.

### Create a form array with array-level validators
You include array-level validators and async validators. These come in handy when you want to perform validation that considers the value of more than one child control.

The two types of validators are passed in separately as the second and third arguments, or together as part of an options object. You can pass in validators separately or as part of an options object. The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.

The updateOn property for all controls is set to `'blur'`. The options object is used to set a default value for each control’s `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `blur`, unless the child control has explicitly specified a different `updateOn` value.
coerceToValidator(validatorOrOpts),
coerceToAsyncValidator(asyncValidator, validatorOrOpts));
this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Get the `AbstractControl` at the given `index` in the array.
 * @param index Index in the array to retrieve the control
 * @param at(index: number): AbstractControl { return this.controls[index]; }
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Insert a new `AbstractControl` at the given `index` in the array.
 * @param index Index in the array to insert the control
 * @param control Form control to be inserted
 * @param push(control: AbstractControl): void { this.controls.push(control); }
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Insert a new `AbstractControl` at the given `index` in the array.
 * @param index Index in the array to insert the control
 * @param control Form control to be inserted
 * @param removable(index: number): AbstractControl: void { if (this.controls[index]) this.controls.splice(index, 0, control); }
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Remove the control at the given `index` in the array.
 * @param index Index in the array to remove the control
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Replace an existing control.
 * @param index Index in the array to replace the control
 * @param control The `AbstractControl` control to replace the existing control
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Length of the control array.
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Sets the value of the `FormArray`. It accepts an array that matches
 * the structure of the control.
 * @param value Array of values for the controls
 * @param options Configure options that determine how the control
 * propagates changes and emits events after the value changes
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Patches the value of the `FormArray`. It accepts an array that matches
 * the structure of the control, and does its best to match the values
 * to the correct controls in the group.
 */

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});
number) => {
      if (this.at(index)) {
        this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
      }
    });
    this.updateValueAndValidity(options);
  }

  /**
   * Resets the
   * `FormArray` and all descendants are marked `pristine` and `untouched`, and the
   * value of all descendants to null or null maps.
   * You reset to a specific form state by passing in an array of states
   * that matches the structure of the control. The state is a standalone value
   * or a form state object with both a value and a disabled status.
   * Reset the values in a form array
   * The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.
   * The configuration options are passed to the AbstractControl method.
   * reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {

   this.updatePristine(options);
   this.updateTouched(options);
   this.updateValueAndValidity(options);
  }

  /**
   * The aggregate value of the array, including any disabled controls.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   * This array includes all the controlless controls.
   */
  getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
      return control
        instanceof FormControl?
          control.value:
        (<any>control).getRawValue()
    });
  }

  /**
   * Remove all
   * controls in the `FormArray`.
   *
   * @usageNotes
   * ### Remove all elements from a FormArray
   *
   * ```ts
   * const arr = new FormArray([new FormControl(), new FormControl()]);
   *
   * console.log(arr.length);  // 2
   * arr.clear();
   * console.log(arr.length);  // 0
   * ```
   *
   * It's a simpler
   * and more efficient alternative to removing all elements one by one:
   *
   * ```ts
   * const arr = new
   * FormArray([new FormControl(), new FormControl()]);
   * while (arr.length) {
   *   arr.removeAt(0);
   * }
   * ```
   */
  clear(): void {
    if (this.controls.length < 1) return;

    this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));

    this.controls.splice(0);
    this.updateValueAndValidity();
  }

  /** @internal */
  _syncPendingControls(): boolean {
    let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
      return
        child._syncPendingControls() ? true : updated;
    }, false);
    if (subtreeUpdated)
      this.updateValueAndValidity({onlySelf: true});
  }

  /** @internal */
  _throwIfControlMissing(index: number): void {
    if (!this.controls.length) {
      throw new Error(`
        There
        are no form controls registered with this array yet.  If you're using ngModel,
        you may want to check next tick (e.g. use setTimeout).`);
    }
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index: ${index}.`);
    }
  }

  /** @internal */
  _setUpControls(): void {
    this._forEachChild((control:
         AbstractControl) => this._registerControl(control));
  }

  /** @internal */
  _checkAllValuesPresent(value: any): void {
    this._forEachChild((control:
         AbstractControl, i: number) => {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }

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```

```
import {OnDestroy, OnInit} from '@angular/core';

import {FormGroup} from '../model';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

/**
 * @description
 * A base class for code shared between the `NgModelGroup` and `FormGroupName` directives.
 *
 * @publicApi
 */
export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _parent !: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group
   *
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _validators !: any[];

  /**
   * @description
   * An array of async validators for the group
   *
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered on the instance after the inputs are set.
   * Registers the group with its parent group.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective!.addFormGroup(this);
  }

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed.
   * Removes the group from its parent group.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */
  get control(): FormGroup {
    return this.formDirective!.getFormGroup(this);
  }

  /**
   * @description
   * The path to this group from the top-level directive.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): Form|null { return this._parent ? this._parent.formDirective : null; }

  /**
   * @description
   * The synchronous validators registered with this group.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  /**
   * @description
   * The async validators registered with this group.
   */
  get asyncValidator(): AsyncValidatorFn|null { return composeAsyncValidators(this._asyncValidators); }

  /** @internal */
  _checkParentType(): void {}
}

LICENSE file at https://angular.io/license

*/

import {FormsModule} from '@angular/forms';
import * as _ from 'lodash';

import {FormGroup} from './form';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

/**
 * @description
 * A base class for code shared between the `NgModelGroup` and `FormGroupName` directives.
 *
 * @publicApi
 */
export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _parent !: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group
   *
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _validators !: any[];

  /**
   * @description
   * An array of async validators for the group
   *
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered on the instance after the inputs are set.
   * Registers the group with its parent group.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective!.addFormGroup(this);
  }

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed.
   * Removes the group from its parent group.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */
  get control(): FormGroup {
    return this.formDirective!.getFormGroup(this);
  }

  /**
   * @description
   * The path to this group from the top-level directive.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): Form|null { return this._parent ? this._parent.formDirective : null; }

  /**
   * @description
   * The synchronous validators registered with this group.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  /**
   * @description
   * The async validators registered with this group.
   */
  get asyncValidator(): AsyncValidatorFn|null { return composeAsyncValidators(this._asyncValidators); }

  /** @internal */
  _checkParentType(): void {}
}
import (NgModelGroup) from '../ng_model';
import (NgForm) from '../ng_form';
import {TemplateDrivenErrors} from '../template_driven_errors';

export const modelGroupProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgModelGroup),
}/** *
 * @description
 * Creates and binds a `FormGroup`
 * instance to a DOM element.
 */

** The following example shows you how to combine controls together in a sub-group:

```typescript
const exampleForms: any = {
  ngModelGroup: Component,
}/** *
 * @description
 * Provides a name for the sub-group and it will become the key
 * for the sub-group in the form's full value. If you need direct access,
 * export the directive into a local template variable using `ngModelGroup` (ex: `myGroup="ngModelGroup"`).
 */
@Directive({selector: '
  @Input('name') name!: string;
})
export class NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /** *
   * @description
   * Tracks the name of the `NgModelGroup` bound to the directive. The name
   * corresponds to a key in the parent `NgForm`. This is used to identify
   * the sub-group in the form.
   */
  name!: string;

  constructor(parent: ControlContainer, validators: any[], asyncValidators: any[]) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
      TemplateDrivenErrors.modelGroupParentException();
    }
  }
}

/** *
 * @license
 *
 * Copyright Google Inc. All Rights Reserved.
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';
import {NgForm} from './ng_form';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor, setUpControl} from './shared';
import {TemplateDrivenErrors} from './template_driven_errors';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel),
}/** *
 * @description
 * Creates a `FormControl` instance from a domain model and
 * binds it to a form control element.
 */

** Notes:
 * - this is just one extra run no matter how many `ngModel` have been changed.
 * - this is a general problem when using `exportAs` for directives!

const resolvedPromise = (() =>
  Promise.resolve(null));

/** *
 * @description
 * Creates a `FormControl` instance from a domain model and
 * binds it to a form control element.
 */

 **
inspect the properties of the associated `FormControl` (like validity state), export the directive into a local template variable using `\`ngModel\` as the key (ex: `\`myVar=\`ngModel\``)). You then access the control using the directive’s `\`control\` property, but most properties used (like `\`valid\` and `\`dirty\`) fall through to the control anyway for direct access. See a full list of properties directly available in `\`AbstractControlDirective\`.

When using the `\`ngModel\` within `\`<form\>` tags, you’ll also need to supply a `\`name\` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it’s often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a local template variable using `\`ngForm\` such as (`\`#f=\`ngForm\```). Use the variable where you needed on form submission. If you do need to populate initial values into your form, using a one-way binding for `\`ngModel\` tends to be sufficient as long as you use the exported form’s value rather than the domain model’s value on submit.

The following examples show a simple standalone control using `\`ngModel\``` within a form:

```html
<input
name="login" ngModel placeholder="Login">
```

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used by the form control element, and the `\`@Input\` property serves a different purpose:

```html
<my-person-control
name="Nancy" ngModel 
[ngModelOptions]="{name: 'user'}">
</my-person-control>
```

### Using a standalone ngModel within a form

The following example shows you how to use a standalone ngModel control within a form. This context sets the form display, but doesn’t contain form data. The component is not a part of the parent form.

```html
<my-person-control
name="Nancy" ngModel 
[ngModelOptions]="{standalone: true}" formControlName="Nancy">
</my-person-control>
```

```html
<form>
  <input
name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
[ngModelOptions]="{standalone: true}">
</form>
```

### Using ngModel within a group

The following example shows you how to use a ngModel control within a form. This controls the display of the form, but doesn’t contain form data. The component is not a part of the parent form.

```html
<my-person-control
name="Nancy" ngModel 
[ngModelOptions]="{name: 'user'}">
</my-person-control>
```

### Using ngModel on a standalone control

The following examples show a simple standalone control using `\`ngModel\`:

```html
<input
name="login" ngModel placeholder="Login">
```

```html
<form>
  <input
name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
[ngModelOptions]="{standalone: true}">
</form>
```

### Using ngModel within `<form>` tags

When using the `\`ngModel\` within `\`<form\>` tags, you’ll also need to supply a `\`name\` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it’s often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a local template variable using `\`ngForm\` such as (`\`#f=\`ngForm\```). Use the variable where you needed on form submission. If you do need to populate initial values into your form, using a one-way binding for `\`ngModel\` tends to be sufficient as long as you use the exported form’s value rather than the domain model’s value on submit.

The following examples show a simple standalone control using `\`ngModel\``` within a form:

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name="login" ngModel placeholder="Login">
```

**** Using ngModel within a form

The following examples show a simple standalone control using `\`ngModel\``` within a form:

```html
<input
name="login" ngModel placeholder="Login">
```

```html
<form>
  <input
name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
[ngModelOptions]="{standalone: true}">
</form>
```

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used by the form control element, and the `\`@Input\` property serves a different purpose:

```html
<my-person-control
name="Nancy" ngModel 
[ngModelOptions]="{name: 'user'}">
</my-person-control>
```

```html
<form>
  <input
name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
[ngModelOptions]="{standalone: true}">
</form>
```

### Using ngModel within a group

The following example shows you how to use a ngModel control within a form. This controls the display of the form, but doesn’t contain form data. The component is not a part of the parent form.

```html
<my-person-control
name="Nancy" ngModel 
[ngModelOptions]="{name: 'user'}">
</my-person-control>
```
&amp; !this.control.disabled) {
            this.control.disable();
        } else if (!this.control.disabled &
            !this.control.enable()) {
            this.control.enable();
        }
    }
}

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 * https://angular.io/license
 */

import {Directive} from '@angular/core';

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 *
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

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 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```
 * {@example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}
 * ```
 *
 * ### Use with ngModel
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular v6 and will be removed in a future version of Angular.
 *
 * Now deprecated:
 *
 * ```html
 * <input [formControl]="control" [(ngModel)]="value">
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/settong the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.
 *
 * In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.
 *
 * To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or use input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.
 *
 * In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.

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used as the code is being updated.

```typescript
/**
 * @ngModule ReactiveFormsModule
 * @publicApi
*/

@Directive({selector: '[formControl]', providers: [FormControlBinding], exportAs: 'ngForm'])

export class FormControlDirective extends NgControl implements OnChanges {
  /**
   * @description
   * Internal reference to the view model value.
   */
  viewModel: any;

  /**
   * @description
   * Tracks the 'FormControl' instance bound to the directive.
   */
  // TODO(issue/24571): remove !
  @Input('formControl') form !: FormControl;

  /**
   * @description
   * Triggers a warning that this input should not be used with reactive forms.
   */
  @Input('disabled') set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }

  /**
   * @description
   * Instance property used to track whether an ngModel warning has been sent out for this
   * particular 'FormControlDirective' instance. Used to support warning config of 'always'!
   */
  _ngModelWarningSentOnce = false;

  constructor(@Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
              @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
              @Optional() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
              @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {
    super();
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }

  get path(): string[] { return []; }

  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._rawAsyncValidators);
  }

  get control(): FormControl { return this.form; }

  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  private _isControlChanged(changes: {[key: string]: any}): boolean {
    return changes.hasOwnProperty('form');
  }

  // TODO(issue/24571): remove !
  @Output('ngModelChange') update = new EventEmitter();
}

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 */

import {Directive, EventEmitter, Inject, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS,
Validators} from `./validators
import {ControlContainer} from `./control_container
import {Form} from `./form_interface
import {FormErrors} from `./reactive_errors
import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from `./shared
import {FormControlName} from `./form_control_name
import {FormArrayName, FormGroupName} from `./form_group_name

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 * This directive accepts an existing `FormGroup` instance. It will then use this `FormGroup` instance to match any child `FormControl`, `FormGroup`, `FormArray` and `FormArrayName` instances to child `FormControlName`, `FormGroupName`, `FormArrayName` directives.
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `AbstractControl`
 *
 * ### Register FormGroup
 *
 * The following example registers a `FormGroup` with first name and last name controls, and listens for the `*ngSubmit` event when the button is clicked.
 *
 * @example
 * forms/tssimpleFormGroupsimple_form_group_example.ts region='Component'
 */
@Directive({
  selector: `[formGroup]`
})
export class FormGroupDirective extends ControlContainer implements Form, OnChanges {
  /**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  // TODO(issue/24571): remove '!'.
  private _oldForm !: FormGroup;

  /**
   * @description
   * Tracks the list of added `FormControlName` instances.
   */
  directives: FormControlName[] = [];

  /**
   * @description
   * Tracks the `FormGroup` bound to this directive.
   */
  @Input('formGroup')
  form: FormGroup = null !;

  /**
   * @description
   * Emits an event when the form submission has been triggered.
   */
  @Output() ngSubmit = new EventEmitter();

  constructor(
      @Optional() @Self() @Inject(NG_VALIDATORS) private _validators: any[][],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[][]) {
    super();
  }

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  /**
   * @description
   * Returns this directive's instance.
   */
  get formDirective(): Form { return this; }

  /**
   * @description
   * Returns the `FormGroup` bound to this directive.
   */
  get control(): FormGroup { return this.form; }

  /**
   * @description
   * Method that sets up the control directive in this group, re-calculates its value and validity, and adds the instance to the internal list of directives.
   * @param dir The `FormControlName`
   */
  addControl(dir: FormControlName): FormControl {
    const ctrl: any = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  /**
   * @description
   * Retrieves the `FormGroup`
   * @param dir The `FormGroupName`
   */
  addFormGroup(dir: FormGroupName): void {
    const ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
  }

  /**
   * No-op method to remove the form group.
   * @param dir The `FormGroupName`
   */
  removeFormGroup(dir: FormGroupName): void {}
getFormGroup(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

addFormGroupArray(dir: FormGroupName): void {
  const ctrl: any = this.form.get(dir.path);
  setUpFormContainer(dir, ctrl);
  ctrl.updateValueAndValidity({emitEvent: false});
}

removeFormGroup(dir: FormGroupName): void {
  const ctrl: any = this.form.get(dir.path);
  cleanUpControl(ctrl, dir);
  this.form.remove(dir.path);
}

setFormContainer(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

getFormGroup(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

addFormArray(dir: FormArrayName): void {
  const ctrl: any = this.form.get(dir.path);
  setUpFormContainer(dir, ctrl);
  ctrl.updateValueAndValidity({emitEvent: false});
}

removeFormArray(dir: FormArrayName): void {
  const ctrl: any = this.form.get(dir.path);
  cleanUpControl(ctrl, dir);
  this.form.remove(dir.path);
}

getFormArray(dir: FormArrayName): FormArray {
  return <FormArray>this.form.get(dir.path);
}

addFormArray(dir: FormArrayName): void {
  const ctrl: any = this.form.get(dir.path);
  setUpFormContainer(dir, ctrl);
  ctrl.updateValueAndValidity({emitEvent: false});
}

removeFormArray(dir: FormArrayName): void {
  const ctrl: any = this.form.get(dir.path);
  cleanUpControl(ctrl, dir);
  this.form.remove(dir.path);
}

setFormContainer(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

getFormGroup(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

setFormContainer(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

getFormGroup(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

setFormContainer(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}
within the group using dot syntax.

```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

The following example registers a nested `FormGroup` within an existing
`FormGroup`, and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
@example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'
```

#### Register a nested `FormGroup`.

The following example registers a nested *name* `FormGroup` within an existing
`FormGroup`, and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

The following example registers a nested *name* `FormGroup` within an existing
`FormGroup`, and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

The following example registers a nested *name* `FormGroup` within an existing
`FormGroup`, and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

The following example registers a nested *name* `FormGroup` within an existing
`FormGroup`, and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
this.form.get('name.first');
```
* Async validator function composed of all the async validators registered with this directive.

```typescript
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
}
```

```typescript
get _asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
}
```

```typescript
private _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.arrayParentException();
    }
  }
}
```

```typescript
function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
  !(parent instanceof FormArrayName);
}
```

```typescript
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 * found in the LICENSE file at
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 */

```typescript
import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy,
  Optional, Output, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath,
  isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {

  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 * 
 * @see 
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form
 * controls within a group
 * and set their value.
 *
 * ```html
 * <form 
 * 
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons.
 * First, developers have found this pattern confusing. It seems like the actual `ngModel`
 * directive is being used, but in fact it's an input/output property named `ngModel` on the reactive
 * form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting
 * the value and intercepting value events. However, some of `ngModel`'s other features - like
 * delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has
 * understandably caused some confusion. In addition, this pattern mixes template-driven and reactive
 * forms strategies, which we generally don't recommend because it doesn't take advantage of the full
 * benefits of `controlName` either strategy. Setting the value in the template violates the
 * template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer
 * makes the class removes the convenience of defining forms in the template.
 * To update your code before support is removed, you'll want to decide whether to stick with
 * reactive form directives (and get/set values using reactive forms patterns) or switch over to
 * template-driven directives.
 * After (choice 1 - use reactive forms):
 * After (choice 2 - use template-driven forms):
 * By default, when you use this pattern, you will see a deprecation warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * `ReactiveFormsModule` at import time:
 * ```ts
 * imports:
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value
of "\"always\"". This may help to track down where in the code the pattern is being used as the code is being updated.\n\n* @ngModule ReactiveFormsModule\n* @publicApi \n* @Directive({selector: [formControlName], providers: [controlNameBinding]})\n*export class FormControlName extends NgControl implements OnChanges, OnDestroy {\n  private _added = false;\n  /**\n   * Internal reference to the view model.\n   * @internal\n   */\n  viewModel: any;\n  /**\n   * Tracks the 'FormControl' instance bound to the directive.\n   */\n  // TODO(issue/24571): remove !;\n  readonly control!: FormControl;\n  /**\n   * Tracks the name of the 'FormControl' bound to the directive.\n   * @ngModule ReactiveFormsModule\n   * @publicApi\n   */\n  @Directive({selector: '[formControlName]', providers: [controlNameBinding]})\n  export class FormControlName extends NgControl implements OnChanges, OnDestroy {\n    private _added = false;\n    /**\n     * Internal reference to the view model.\n     * @internal\n     */\n    viewModel: any;\n    /**\n     * Tracks the name of the 'FormControl' bound to the directive.\n     */\n    // TODO(issue/24571): remove !;\n    readonly control!: FormControl;\n    /**\n     * @description\n     * Tracks the `FormControl` instance bound to the directive.\n     * @ngModule ReactiveFormsModule\n     * @publicApi\n     */
    @Directive({selector: '[formControlName]', providers: [controlNameBinding]})
    export class FormControlName extends NgControl implements OnChanges, OnDestroy {
      private _added = false;
      /**
       * @description
       * Internal reference to the view model.
       * @internal
       */
      viewModel: any;
      /**
       * Tracks the name of the 'FormControl' bound to the directive.
       */
      // TODO(issue/24571): remove !;\n      readonly control!: FormControl;
      /**
       * @description
       * Tracks the name of the 'FormControl' bound to the directive.
       */
      // TODO(issue/24571): remove !;\n      readonly control!: FormControl;
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import {Directive, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef} from '@angular/core';
import {Observable} from 'rxjs';

import {AbstractControl} from '../model';
import {NG_VALIDATORS, Validators} from '../validators';

/**
 * @description
 * Defines the map of errors returned from failed validation checks.
 *
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes that perform synchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a custom validator directive with a custom error key.

* @Directive({
 *   selector: '[customValidator]',
 *   providers: [{provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}]
 * })
 * class CustomValidatorDirective implements Validator {
 *   validate(control: AbstractControl): ValidationErrors|null {
 *     return {'custom': true};
 *   }
 * }
 *
 * ```typescript
 * @Directive({
 *   selector: '[customAsyncValidator]',
 *   providers: [{provide: NG_ASYNC_VALIDATORS, useExisting: CustomAsyncValidatorDirective, multi: true}]
 * })
 * class CustomAsyncValidatorDirective implements AsyncValidator {
 *   validate(control: AbstractControl): Observable<ValidationErrors|null> {
 *     return observableOf({'custom': true});
 *   }
 * }
 *
 * ```
 *
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({
  selector: ':not([type=checkbox])[required][formControlName],[not([type=checkbox])[required][formControl]).not([type=checkbox])[required][ngModel]',
  providers: [REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Method that performs synchronous validation against the provided control.
   *
   * @description
   * @param fn The callback function to call when the validator inputs change.
   */
  registerOnChange?(fn: () => void): void;

  /**
   * Method that performs async validation against the provided control.
   *
   * @description
   * @param fn The callback function to call when the validator inputs change.
   */
  registerOnTouched?(fn: () => void): void;

  validate(control: AbstractControl): ValidationErrors|null {
    return {'required': true};
  }
}

export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};

```typescript
@Directive({
  selector: '[not([type=checkbox])][required][formControlName],[not([type=checkbox])][required][formControl].not([type=checkbox])[required][ngModel]',
  providers: [REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class RequiredValidator {
  not([type=checkbox])[required][formControlName],[not([type=checkbox])][required][formControl].not([type=checkbox])[required][ngModel],
  providers: [REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
```
@Input()
  get
  required(): boolean|string { return this._required; }

  set required(value: boolean|string) {
    this._required = value != null && value !== false && `${value}` !== 'false';
    if (this._onChange) this._onChange();
  }

/**
   * @description
   * Method that validates whether the control is empty.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.required(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * A Directive that adds the `required` validator to checkbox
 * controls marked with the `required` attribute. The directive is provided
 * with the `NG_VALIDATORS` multi-provider list.
 * 
 * @see [Form Validation](guide/form-validation)
 *
 * @usageNotes
 * 
 * ### Adding a required checkbox validator
 * 
 * The following example shows how to add a checkbox required validator to an input attached to an
 * ngModel binding.
 * 
 * ```
 * <input type="checkbox" name="active" ngModel required>
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
@Directive({
  selector: 'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl]
',
  providers: [CHECKBOX_REQUIRED_VALIDATOR],
  host: { '[attr.required]': 'required ? "" : null' }
})
export class CheckboxRequiredValidator extends RequiredValidator {
  /**
   * @description
   * Method that validates whether or not the checkbox has been checked.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._enabled ? Validators.requiredTrue(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * A function that receives a control and synchronously returns a map of
 * validation errors if present, otherwise null.
 *
 * @publicApi
 */
export interface ValidatorFn { (control: AbstractControl): ValidationErrors|null; }

/**
 * A function that receives a control and returns a Promise or
 * observable that emits validation errors if present, otherwise null.
 *
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>; }

/**
 * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};

/**
 * A directive that adds minimum length validation to controls
 * 
 * ```
 * <input type="password" name="password" ngModel minLength="6">
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
@Directive({
  selector: '[minLength][formControlName],[minLength][formControl],[minLength][ngModel]
',
  providers: [MIN_LENGTH_VALIDATOR]
})
export class MinLengthValidator implements Validator {
  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   */
  @Input()
  set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether an email address is valid.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._enabled ? Validators.email(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * A function that receives a control and returns a Promise or
 * observable that emits validation errors if present, otherwise null.
 *
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>; }

/**
 * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};

/**
 * A directive that adds minimum length validation to controls
 * 
 * ```
 * <input type="password" name="password" ngModel minLength="6">
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
@Directive({
  selector: '[minLength][formControlName],[minLength][formControl],[minLength][ngModel]
',
  providers: [MIN_LENGTH_VALIDATOR]
})
export class MinLengthValidator implements Validator {
  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   */
  @Input()
  set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether an email address is valid.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._enabled ? Validators.email(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * A function that receives a control and synchronously returns a map of
 * validation errors if present, otherwise null.
 *
 * @publicApi
 */
export interface ValidatorFn { (control: AbstractControl): ValidationErrors|null; }

/**
 * A function that receives a control and returns a Promise or
 * observable that emits validation errors if present, otherwise null.
 *
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>; }

/**
 * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};

/**
 * A directive that adds minimum length validation to controls
 * 
 * ```
 * <input type="password" name="password" ngModel minLength="6">
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
@Directive({
  selector: '[minLength][formControlName],[minLength][formControl],[minLength][ngModel]
',
  providers: [MIN_LENGTH_VALIDATOR]
})
export class MinLengthValidator implements Validator {
  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   */
  @Input()
  set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether an email address is valid.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._enabled ? Validators.email(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}
marked with the `minlength` attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list. 

```typescript
MinLengthValidator
```
control value.
The directive is provided with the 'NG_VALIDATORS' multi-provider list.

The directive is provided with the 'NG_VALIDATORS' multi-provider list. The following example shows how to add a pattern validator to an input attached to an ngModel binding.

```html
<input name="firstName" ngModel pattern="[a-zA-Z \]*">
```

@ngModule
ReactiveFormsModule
@ngModule FormsModule
@publicApi
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator, OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  // TODO(issue/24571): remove '!'.
  @Input() pattern !: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value matches the pattern requirement.
   * @param control The control to validate.
   * @returns ValidationErrors or null
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control); 
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void { this._validator = Validators.pattern(this.pattern); }
}
*/

import {NgModule, Type} from '@angular/core';

import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgForm} from './directives/ng_form';
import {NgModel} from './directives/ng_model';
import {NgModelGroup} from './directives/ng_model_group';
import {NgNoValidate} from './directives/ng_no_validate_directive';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {FormControlDirective} from './directives/reactive_directives/form_control_directive';
import {FormControlName} from './directives/reactive_directives/form_control_name';
import {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
import {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
import {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   *
   * @param options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   *
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of
   * async validator functions
   * * `updateOn`: The event upon which the control should be updated (options: 'change'
   * | 'blur' | 'submit')
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of
   * async validator functions
   *
   */
  group(controlsConfig: {[key: string]: any}, options: AbstractControlOptions|{[key: string]: any}|null = null): FormGroup {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn|ValidatorFn[]|null = null;
    let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;
    let updateOn: FormHooks|undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are
        // `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are
        // `LegacyConfigurationObject`
        validators = options['validator'] != null ? options['validator'] : null;
        asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
      }
    }

    return new FormGroup(controls, {validators, updateOn, asyncValidators});
  }

  // other methods...
}
validatorOrOpts A synchronous validator function, or an array of
such functions, or an
`AbstractControlOptions` object that contains
 validation functions and a validation trigger.

asyncValidator A single async validator or array of async validators.

### Initialize a control as disabled

The following example returns a control with an initial value in a
disabled state.

validatorOrOpts a synchronous validator function, or an
array of such functions, or an
`AbstractControlOptions` object that contains
validation functions and a validation trigger.

@usageNotes

### Initialize a control as disabled

The following example returns a control with an initial value in a
disabled state.

validatorOrOpts a synchronous validator function, or an
array of such functions, or an
`AbstractControlOptions` object that contains
validation functions and a validation trigger.

warnOnNgModelWithFormControl: 'never' | 'once' | 'always'

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 * This module is used for handling user input, by defining and building a
 * `FormGroup` that consists of `FormControl` objects, and mapping them onto the DOM. `FormControl` objects can then be used to
 * read information from the form DOM elements.
 * Forms providers are not included in default providers; you must import these providers explicitly.
 */

export {ɵInternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from './directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlContainer} from './directives/control_container';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/default_value_accessor';
export {Form} from './directives/form_interface';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {ɵNgNoValidate} from './directives/ng_no_validate_directive';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
export {AsyncValidator, AsyncValidatorFn, CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
export {FormBuilder} from './form_builder';
export {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup} from './model';
export {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from './validators';
export {VERSION} from './version';

export * from './form_providers';

// This file only reexports content of the `src` folder. Keep it that way.

export * from './src/directives';

C, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, GAAC, GAAG, CAAC, OAAO, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ, FsbBAI, c+CAAY; iBAAIB, cAASB, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ, FsbBAI, dIAAEc; iBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
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; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
; WAAA; QACZ7, FsbBAI, BiAACiBAAIB, cAAG, OAAO, IAAI, CAAC, GAAG, CAAC, OAAO, GAAG, IAAI, CAAC, KAACK, GAAG, KAACK, CAAC, EAAE;
Open Source Used In MSX Platform Services 4.0.0
Open Source Used In MSX Platform Services 4.0.0

Found in path(s):
* /opt/ws_local/PERMITS_SQL/104774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.js.map

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

{"version":3,"file":"forms.js","sources":
ControlValueAccessor

@description
* Defines an interface that acts as a bridge between the Angular forms API and a native element in the DOM.
*
* @description
*
* Implementation of this interface to create a custom form control directive that integrates with Angular forms.
*
* @see DefaultValueAccessor
*
* @publicApi
*

```ts
export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element.
   *
   * This method is called by the forms API to write to the view when programmatic changes from model to view are requested.
   *
   * @param obj
   * The new value for the element
   */
  writeValue(obj: any): void;

  /**
   * @description
   * Registers a callback function that is called when the control's value changes in the UI.
   *
   * When implementing the `registerOnChange` method in your own value accessor, save the given function so your class calls it at the appropriate time.
   *
   * @param fn
   * The callback function to register
   */
  registerOnChange(fn: any): void;

  /**
   * @description
   * Registers a callback function is called by the forms API on initialization to update the form model when values propagate from the view to the model.
   *
   * When implementing `registerOnTouched` in your own value accessor, save the given function so your class calls it when the control should be considered touched.
   *
   * @param fn
   * The callback function to register
   */
  registerOnTouched(fn: any): void;

  /**
   * @description
   * Function that is called by the forms API when the control status changes to or from 'DISABLED'. Depending on the status, it enables or disables the appropriate DOM element.
   *
   * @param isDisabled
   * The disabled status to set on the element
   */
  setDisabledState?(isDisabled: boolean): void;
}
```

```ts
/**
 * Used to provide a `ControlValueAccessor` for form controls.
 *
 * @publicApi
 */
export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');
```
CheckboxControlValueAccessor

```typescript
/**
 * @description
 * The registered callback function called when a change event
 * occurs on the input element.
 * @param value The value
 */
  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
  }

  /**
   * @description
   * Registers a function called when the control value changes.
   * @param fn The callback function
   */
  registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }

  /**
   * @description
   * Registers a function called when the control is touched.
   * @param fn The callback function
   */
  registerOnTouched(fn: () => {}): void { this.onTouched = fn; }

  /**
   * Sets the "disabled" property on the input element.
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}
```

```typescript
/**
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input
 * elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModelGroupDirective` directives.
 * @usageNotes
 *
 * ### Using the default value accessor
 *
 * The following example shows how to use an input element that activates the default value accessor
 * (in this case, a text field).
 *
 * ```ts
 * const firstNameControl = new FormControl();
 * ```
 *
 * ```
 * <input type="text" [formControl]="firstNameControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
  input[type='text'], textarea,[formControl], input[type='text'], textarea,[formControl],
  host: {
    '(input)': 'onInputChange($event.target.value)',
    '(blur)': 'onTouched()',
    '(compositionstart)': 'onInputChange($event.target.value)',
    '(compositionend)': 'onInputChange($event.target.value)',
    '(compositionend)': 'onInputChange($event.target.value)',
  },
  providers: [DEFAULT_VALUE_ACCESSOR]
})
export class DefaultValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when an input event
   */
  invoke(ref, control, value: any) {
    if (control) {
      this.onChange(control.value);
    }
  }
}
```

```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {ɵgetDOM as getDOM} from '@angular/common';
import {Directive, ElementRef, Inject, InjectionToken, Optional, Renderer2, forwardRef} from '@angular/core';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const DEFAULT_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => DefaultValueAccessor),
  multi: true
};

/**
 * @description
 * Provide this token to control
 * if form directives buffer IME input until
 * the "compositionend" event occurs.
 * @publicApi
 */
export const COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');
occurs on the input element.

* @param value The checked value
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Whether the user is creating a composition string (IME events).
   */
  private _composing = false;

  constructor(
    private _renderer: Renderer2,
    private _elementRef: ElementRef,
    @Optional()
    @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean
  ) {
    if (this._compositionMode === null) {
      this._compositionMode = !_isAndroid();
    }
  }

  /**
   * Sets the "value" property on the input element.
   */
  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
  }

  /**
   * @description
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange(value);
    }
  }

  /** @internal */
  _compositionStart(): void {
    this._composing = true;
  }

  /** @internal */
  _compositionEnd(value: any): void {
    this._composing = false;
    this._compositionMode && this.onChange(value);
  }

  /**
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   */

import {Observable} from 'rxjs';
import {AbstractControl} from '../model';
import {ValidationErrors} from './validators';

/**
 * @description
 * Base class for control directives.
 *
 * This class is only used internally in the 'ReactiveFormsModule' and the 'FormsModule'.
 * @publicApi
 */
export abstract class AbstractControlDirective {
  /**
   * @description
   * A reference to the underlying control.
   *
   * @returns the control that backs this directive. Most properties fall through to that instance.
   */
  abstract get control(): AbstractControl|null;

  /**
   * @description
   * Reports the value of the control if it is present, otherwise null.
   */
  get value(): any { return this.control ? this.control.value : null;

  /**
   * @description
   * Reports whether the control is valid. A control is considered valid if no validation errors exist with the current value.
   */
  get valid(): boolean|null { return this.control ? this.control.valid : null;

  /**
   * @description
   * Reports whether the control is invalid, meaning that an error exists in the input value.
   */
  get invalid(): boolean|null { return this.control ? this.control.invalid : null;

  /**
   * @description
   * Reports whether a control is pending, meaning that that async validation is occurring and errors are not yet available for the input value.
   */
  get pending(): boolean|null { return this.control ? this.control.pending : null;

  /**
   * @description
   * Reports whether the control is disabled, meaning that the control is disabled in the UI and is exempt from validation checks and excluded from aggregate values of ancestor controls.
   */
  get disabled(): boolean|null { return this.control ? this.control.disabled : null;

  /**
   * @description
   * Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value.
   */
  get enabled(): boolean|null { return this.control ? this.control.enabled : null;

  /**
   * @description
   * Reports the control's validation errors. If the control is not present, null is returned.
   */
  get errors(): ValidationErrors|null { return this.control ? this.control.errors : null;

  /**
   * @description
   * Reports whether the control is pristine, meaning that the user has not yet changed the value in the UI. If the control is not present, null is returned.
   */
  get pristine(): boolean|null { return this.control ? this.control.pristine : null;

  /**
   * @description
   * Reports whether the control is dirty, meaning that the user has changed the value in the UI. If the control is not present, null is returned.
   */
  get dirty(): boolean|null { return this.control ? this.control.dirty : null;

  /**
   * @description
   * Reports whether the control is touched, meaning that the user has triggered a 'blur' event on it. If the control is not present, null is
import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator, 

return null; }

/**
 * @description
 * A base class for directives that contain multiple registered instances of `NgControl`. 
 * Only used by the forms module.
 */

@publicApi

export abstract class ControlContainer extends AbstractControlDirective {
  // TODO(issue/24571): remove '!'.
  name !: string | number | null;

  /**
   * @description
   * The top-level form directive for the control.
   */
  get formDirective(): any |

  /**
   * @description
   * Returns an array that represents the path from the top-level form to this control. 
 * Each index is the string name of the control on that level.
 */

  get path(): any |

  /**
   * @description
   * Reports the value of the control in the UI or programmatically.
 */

  get value(): any |

  /**
   * @description
   * Returns a multicasting observable that emits a validation status whenever it is
 * calculated for the control. If the control is not present, null is returned.
 */

  get statusChanges(): any |

  /**
   * @description
   * Returns a multicasting observable of value changes for the control that emits every time the
 * value of the control changes in the UI or programmatically.
 */

  get valueChanges(): any |

  /**
   * @description
   * Returns whether the control whether the control with the
 * given path has the error specified.
 */

  getError(errorCode: string, path?: any |

  /**
   * @description
   * Reports whether the control is
 * present, false is returned.
 */

  hasError(errorCode: string, path?: any |

  /**
   * @description
   * Reports error data for the control with the given path.
 */

  getError(errorCode: string, path?: any |

  /**
   * @description
   * Reports whether the control is
 * present, null is returned.
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  hasError(errorCode: string, path?: any |

  /**
   * @description
   * Reports error data for the control with the given path.
 */

  getError(errorCode: string, path?: any |
AsyncValidatorFn, Validator, ValidatorFn} from './validators';

function unimplemented(): any {
  throw new Error('unimplemented');
}

/**
 * @description
 * A base class that all control `FormControl`-based directives extend. It
 * binds a `FormControl` object to a DOM element.
 *
 * @publicApi
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * @description
   * The parent form for the control.
   *
   * @internal
   */
  _parent: ControlContainer|null = null;

  /**
   * @description
   * The value accessor for the control.
   */
  valueAccessor: ControlValueAccessor|null = null;

  /**
   * @description
   * The synchronous array of validators for the control
   */
  _rawValidators: Array<Validator|ValidatorFn> = [];

  /**
   * @description
   * The asynchronous array of validators for the control
   */
  _rawAsyncValidators: Array<AsyncValidator|AsyncValidatorFn> = [];

  /**
   * @description
   * The registered synchronous validator function for the control
   */
  get validator(): ValidatorFn|null { return (ValidatorFn)unimplemented(); }

  /**
   * @description
   * The registered async validator function for the control
   */
  get asyncValidator(): AsyncValidatorFn|null { return (AsyncValidatorFn)unimplemented(); }

  /**
   * @description
   * The callback method to update the model from the view when requested
   */
  abstract viewToModelUpdate(newValue: any): void;
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {AbstractControlDirective} from './abstract_control_directive';
import {NgControl} from './ng_control';

export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status. See `NgControlStatus` for a full description.
 *
 * @ngModule
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({selector: '[formControlName], [ngModel]'},
  host: ngControlStatusHost)
export class NgControlStatus {
  constructor(@Self() cd: NgControl) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {ɵisObservable as isObservable, ɵisPromise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from...
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * @description
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)).
 * - A `label` cannot begin or end with a dash (`-`) or a period (`.`).
 * - A `label` cannot be longer than 63 characters.
 * - The whole address cannot be longer than 254 characters.
 *
 * The main differences from the WHATWG version are:
 * - Disallow `local-part` to begin or end with a period (`.`).
 * - Disallow `local-part` length to exceed 64 characters.
 * - Disallow total address length to exceed 254 characters.
 *
 * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.
 */
const EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9%&\+\-]+(?:\.[a-zA-Z0-9%&\+\-]+)*@[a-zA-Z0-9\-]+(?:\.[a-zA-Z0-9\-]+\.[a-zA-Z0-9\-]+)*$/;

/**
 * @description
 * Provides a set of built-in validators that can be used by form controls.
 *
 * A validator is a function that processes a `FormControl` or collection of controls and returns an error map or null. A null map means that validation has passed.
 *
 * @see [Form Validation](/guide/form-validation)
 *
 * @publicApi
 */
export class Validators {
  /**
   *
   * Validator that requires the control's value to be greater than or equal to the provided number.
   *
   * The validator exists only as a function and not as a directive.
   *
   * @usageNotes
   *
   * ### Validate against a minimum of 3
   *
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * console.log(control.errors); // {min: {min: 3, actual: 2}}
   * ```
   *
   * @returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static min(min: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
        return null;  // don't validate empty values to allow optional controls
      }

      const value = parseFloat(control.value);
      // Controls with NaN values after parsing should be treated as not having a value, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
      return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
    };
  }

  /**
   *
   * Validator that requires the control's value to be less than or equal to the provided number.
   *
   * The validator exists only as a function and not as a directive.
   *
   * ```typescript
   * const control = new FormControl(16, Validators.max(15));
   *
   * console.log(control.errors); // {max: {max: 15, actual: 16}}
   * ```
   *
   * @returns A validator function that returns an error map with the `max` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static max(max: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
        return null;  // don't validate empty values to allow optional controls
      }

      const value = parseFloat(control.value);
      return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;
    };
  }

  /**
   *
   * A regular expression that matches valid phone numbers.
   *
   * At a high level, this regexp matches US phone numbers of the format `(area-code)XXX-XXX`, where:
   * - The area-code consists of one or more of the allowed characters (alphanumeric).
   * - The area-code cannot begin or end with a hyphen (`-`).
   * - The area-code cannot be longer than 61 characters.
   * - The XXX-XXX part consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)).
   * - A XXX cannot begin or end with a dash (`-`) or a period (`.`).
   * - A XXX cannot be longer than 21 characters.
   * - The whole phone cannot be longer than 26 characters.
   *
   * This regexp was ported over from AngularJS (see there for git history): https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27
   *
   * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.
   */
const PHONE_REGEXP = /^(?:(\d{3})|\d{5,7})(\d{3})\d{4}$/;
console.log(control.errors); // { max: { max: 15, actual: 16 } }

* `max` property if the validation check fails, otherwise `null`.

* `@see updateValueAndValidity()`

* `static max(max: number): ValidatorFn`:

```typescript

* `@returns A validator function that returns an error map with the
  'max' property if the validation check fails, otherwise 'null'.`  
* `@see updateValueAndValidity()`

static max(max: number): ValidatorFn {
  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const value = parseFloat(control.value);
    // Controls with NaN values after parsing should be treated as not
    // having a `max` value, per the HTML5 forms spec:
    // https://www.w3.org/TR/html5/forms.html#attr-input-max
    return !isNaN(value) && value > max ? {
      'max': {
        'required': true
      }
    } : null;
  }
}

* `@returns An error map with the 'required' property if the validation check fails, otherwise 'null'.`  
  `@see updateValueAndValidity()`

static required(control: AbstractControl): ValidationErrors | null {
  return isEmptyInputValue(control.value) ? {
    'required': true
  } : null;
}

* `@returns An error map with the 'required' property if the validation check fails, otherwise 'null'.`  
  `@see updateValueAndValidity()`

static requiredTrue(control: AbstractControl): ValidationErrors | null {
  return control.value === true ? null : {
    'required': true
  };
}

* `@returns An error map with the 'required' property if the validation check fails, otherwise 'null'.`  
  `@see updateValueAndValidity()`

static email(control: AbstractControl): ValidationErrors | null {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'required': true
  };
}
```

* `@returns An error map with the 'required' property if the validation check fails, otherwise 'null'.`  
  `@see updateValueAndValidity()`

static minLength(minLength: number): ValidatorFn {
  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const length = control.value.length;
    return length < minLength ? {
      'minlength': {
        'requiredLength': minLength,
        'actualLength': length
      }
    } : null;
  }
}

* `@returns An error map with the 'required' property if the validation check fails, otherwise 'null'.`  
  `@see updateValueAndValidity()`

static minLength(minLength: number): ValidatorFn {
  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const length = control.value.length;
    return length < minLength ? {
      'minlength': {
        'requiredLength': minLength,
        'actualLength': length
      }
    } : null;
  }
}
by default if you use the `pattern` attribute in `Observable<any>`

```javascript
Observable<any> {
  const obs = isPromise(r) ? from(r) : r;
  if (!(isObservable(obs))) {
    throw new
  }
}

function isPresent(o: any): boolean {
  return o != null;
}

export function toObservable(r: any):

```
```
any() {\n  return validators.map(v => v(control));\n}\n\nfunction _mergeErrors(arrayOfErrors: ValidationErrors[]): ValidationErrors|null {\n  return validators.map(v => v(control));\n}\n// Not using Array.reduce here due to a Chrome 80 bug
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 */

import {AbstractControl} from '../model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {\n  if ((<Validator>validator).validate) {\n    return (c: AbstractControl) => \n      (<Validator>validator).validate(c);
  } else {\n    return <ValidatorFn>validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator): AsyncValidatorFn {\n  if ((<AsyncValidator>validator).validate) {\n    return (c: AbstractControl) => \n      (<AsyncValidator>validator).validate(c);
  } else {\n    return <AsyncValidatorFn>validator;
  }
}

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 */

import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
export const NUMBER_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => NumberValueAccessor),
  multi: true\n};

/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to number input changes.
 *
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
 * directives.
 *
 * @usageNotes
 *
 * ### Using a number input with a reactive form.
 *
 * The following example shows how to use a number input with a reactive form.
 *
 * ```ts
 * const totalCountControl = new FormControl();
 * ```
 *
 * ```
 * <input type="number" [formControl]="totalCountControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */

@Directive({
  selector: ['input[type=number][formControlName],input[type=number][formControl],input[type=number][ngModel]',
    host: {
      'change': 'onChange($event.target.value)',
      'input': 'onChange($event.target.value)',
      'blur': 'onTouched()'
    },
    providers: [NUMBER_VALUE_ACCESSOR]
})
export class NumberValueAccessor implements ControlValueAccessor {\n  /**\n   * @description
   * The registered callback function called when a change or input event occurs on the input element.
   *
   * @param value The checked value
   */
  registerOnChange(fn: (_: number|null) => void): void {\n    this.onChange = fn;
  }

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  registerOnTouched(fn: () => void): void {\n    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   * @param value The checked value
   */
  setDisabledState(isDisabled: boolean): void {\n    this.isDisabled = isDisabled;
  }

  writeValue(value: number): void {\n    this.setValue(value);
  }

  /**
   * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
   * directives.
   *
   * @usageNotes
   *
   * ### Using a number input with a reactive form.
   *
   * The following example shows how to use a number input with a reactive form.
   *
   * ```ts
   * const totalCountControl = new FormControl();
   * ```
   *
   * ```
   * <input type="number" [formControl]="totalCountControl">
   * ```
   *
   * @ngModule ReactiveFormsModule
   * @ngModule FormsModule
   * @publicApi
   */

}
useExisting: forwardRef(() => RadioControlValueAccessor),

multi: true
};

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**
   * @description
   * Adds a control to the internal registry. For internal use only.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**
   * @description
   * Removes a control from the internal registry. For internal use only.
   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
        return;
      }
    }
  }

  /**
   * @description
   * Selects a radio button. For internal use only.
   */
  select(accessor: RadioControlValueAccessor) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(controlPair: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor): boolean {
    if (!controlPair[0].control) return false;
    return controlPair[0]._parent === accessor._control._parent &&
      controlPair[1].name === accessor.name;
  }
}

/**
 * @description
 * The `ControlValueAccessor` for writing radio control values and listening to radio
 * control changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives.
 * The follow example shows how to use radio buttons in a reactive form. When using radio buttons inn
 * a reactive form, radio buttons in the same group should have the same 'formControlName'.
 * Providing a 'name' attribute is optional.
 */
@Directive({
  selector: '[formControlName], [ngModel], [formControl][formControlName]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _state !: boolean;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _control !: NgControl;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _fn !: Function;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = () => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the name of the radio input element.
   */
  // TODO(issue/24571): remove '!'.
  @Input() name !: string;

  /**
   * @description
   * Tracks the name of the `FormControl` bound to the directive. The name corresponds to a
   * key in the parent 'FormGroup' or 'FormArray'.
   */
  // TODO(issue/24571): remove '!'.
  @Input()
  formControlName !: string;

  /**
   * @description
   * Tracks the value of the radio input element.
   */
  @Input() value: any;

  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
  }

  ngOnInit(): void {
    this._checkName();
    this._registry.add(this._control, this);
  }

  ngOnDestroy(): void {
    this._registry.remove(this);
  }

  writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
  }

  registerOnChange(fn: (_: any) => {}): void {
    this._fn = fn;
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };

    this.onTouched = () => {
      fn();
      this._registry.select(this);
    };
  }

  registerOnTouched(fn: () => {}): void {
    this.onTouched = fn;
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', this._state);
  }

  /**
   * The follow example shows how to use radio buttons in a reactive form. When using radio buttons inn
   * a reactive form, radio buttons in the same group should have the same 'formControlName'.
   * Providing a 'name' attribute is optional.
   */

  ngOnInit(): void {
    this._checkName();
    this._registry.add(this._control, this);
  }

  ngOnDestroy(): void {
    this._registry.remove(this);
  }

  writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
  }

  registerOnChange(fn: (_: any) => {}): void {
    this._fn = fn;
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };

    this.onTouched = () => {
      fn();
      this._registry.select(this);
    };
  }

  registerOnTouched(fn: () => {}): void {
    this.onTouched = fn;
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', this._state);
  }
}
'disabled', isDisabled);
  }

  private _checkName(): void {
    if (this.name && this.formControlName && this.name !== this.formControlName) {
      this._throwNameError();
    } else if (this.name && this.formControlName) this.name = this.formControlName;
  }

  private _throwNameError(): void {
    throw new Error(`
      If you define both a name and a formControlName attribute on your radio button, their values must match. Ex: <input type="radio" formControlName="food" name="food">
    `);
  }
}

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 */

import {Directive, ElementRef, Renderer2, StaticProvider, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const RANGE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RangeValueAccessor),
  multi: true
};

/**
 * @description
 * The `ControlValueAccessor` for writing a range value and listening to range input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * Using a range input with a reactive form
 * The following example shows how to use a range input with a reactive form.
 * | const ageControl = new FormControl();
 * | ```
 * | <input type="range" [formControl]="ageControl">
 * | ```
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
    '[input[type=range][formControl],input[type=range][formControlName],input[type=range][ngModel]'],
  host: {
    '(change)': 'onChange($event.target.value)',
    '(input)': 'onChange($event.target.value)',
    '(blur)': 'onTouched()'
  },
  providers: [RANGE_VALUE_ACCESSOR]
})
export class RangeValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when a change or input event occurs on the input element.
   * @param value The checked value
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the "value" property on the input element.
   */
  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void) { this.onTouched = fn; }

  /**
   * Sets the "disabled" property on the range input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}

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 */

export const FormErrorExamples = {
  formControlName: `
    <div [formGroup]="myGroup">
      <input formControlName="firstName">
    </div>

    In your class:

    this.myGroup = new FormGroup({
      firstName: new FormControl()
    });
` ,

  formGroupName: `
    <div [formGroup]="myGroup">
      <div formGroupName="person">
        <input formControlName="firstName">
      </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
      person: new FormGroup({ firstName: new FormControl() })
    });
` ,

  formArrayName: `
    <div [formGroup]="myGroup">
      <div formArrayName="cities">
        <div *ngFor="let city of cityArray.controls; index as i">
          <input [formControlName]="i">
        </div>
      </div>
    </div>

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });
` ,

  ngModelGroup: `
    <form>
      <div ngModelGroup="person">
        <input [(ngModel)]="person.name" name="firstName">
      </div>
    </form>
` ,

  ngModelWithFormGroup: `
    <div [formGroup]="myGroup">
      <input formControlName="firstName">
      <input [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">
    </div>
  `
};
import {FormErrorExamples as Examples} from './error_examples';
export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).

Example:

```javascript
${Examples.formControlName}
```

static ngModelGroupException(): void {
  throw new Error(`formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a \"form\" prefix: formGroupName, formArrayName, or formGroup.

Option 1: Update the parent to be formGroupName (reactive form strategy)

```javascript
${Examples.formGroupName}
```

Option 2: Use ngModel instead of formControlName (template-driven strategy)

```javascript
${Examples.ngModelGroup}
```

static missingFormException(): void {

```javascript
${Examples.formControlName}
```

static groupParentException(): void {

```javascript
${Examples.formGroupName}
```

static arrayParentException(): void {

```javascript
${Examples.formArrayName}
```

static disabledAttrWarning(): void {
    console.warn(`It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.`);

Example:

```javascript
form = new FormGroup(
  {
    first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
    last: new FormControl('Drew', Validators.required)
  });
```

static ngModelWarning(directiveName: string): void {
    console.warn(`It looks like you're using ngModel on the same form field as ${directiveName}. Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7. For more information on this, see our API docs here: https://angular.io/api/forms/${directiveName === 'formControl' ? 'FormControlDirective' : 'FormControlName'}#use-with-ngmodel`);
}
```
To customize the default option comparison algorithm, `<select>` supports `compareWith` input. `compareWith` takes a **function** which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects option by the return value of the function.

```ts
const selectedCountriesControl = new FormControl();
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```
```typescript
opt._setSelected(false); }

    this._optionMap.forEach(optionSelectedStateSetter);
    opt._setSelected(false); };
    }
    this._optionMap.forEach(optionSelectedStateSetter);
  }

  /**
   *
   * Registers a function called when the control value changes and writes an array of the
   * selected options.
   * @param fn The callback function
   * @returns undefined
   * @description
   * The method is registered on the class and is called when the control value is updated.
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (_: any) => {
      const selected: Array<any> = [];
      if (_hasOwnProperty('selectedOptions')) {
        const options: HTMLCollection = _.selectedOptions;
        for (let i = 0; i < options.length; i++) {
          const opt: any = options.item(i);
          const val: any = this._getOptionValue(opt.value);
          selected.push(val);
        }
      }
      // Degrade on IE
      else {
        const options: HTMLCollection = <HTMLCollection>_.options;
        for (let i = 0; i < options.length; i++) {
          const opt: HTMLOption = options.item(i);
          if (opt.selected) {
            const val: any = this._getOptionValue(opt.value);
            selected.push(val);
          }
        }
      }
      this.value = selected;
      fn(selected);
    };
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   * @param fn The callback function
   */
  registerOnTouched(fn: () => any): void { this.onTouched = fn;

  /**
   * Sets the "disabled" property on the select input element.
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(value: ɵNgSelectMultipleOption): string {
    const id: string = (this._idCounter++).toString();
    this._optionMap.set(id, value);
    return id;
  }

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id)!._value, value)) return id;
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    const id: string = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id)!._value : valueString;
  }
}

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.
 * @see `SelectMultipleControlValueAccessor`
 * @publicApi
 */
@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove '!'.
  id !: string;
  /**
   * Tracks the value bound to the option
   * element. Unlike the value binding, `ngValue` supports binding to objects.
   * @param value The value
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._value = value;
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * Tracks simple string values bound to the option element.
   * For objects, use the `ngValue` input binding.
   * @param value The value
   */
  @Input('value')
  set value(value: any) {
    if (this._select) {
      this._value = value;
      this._setElementValue(_buildValueString(this.id, value));
      this._select.writeValue(this._select.value);
    } else {
      this._setElementValue(value); void (\n      this._renderer.setProperty(this._element.nativeElement, 'value', value);\n      this._select.writeValue(this._select.value);\n      this._renderer.setElementProperty(this._element.nativeElement, 'selected', selected);\n      this._setSelected(selected: boolean) {\n        this._renderer.setElementProperty(this._element.nativeElement, 'selected', selected);\n      }\n      Lifecycle method called before the directive's instance is destroyed. For internal use only.\n      ngOnDestroy(): void (\n        this._select.delete(this.id);\n        this._select.writeValue(this._select.value);\n        this._renderer.setElementProperty(this._element.nativeElement, 'value', value);\n      }\n    }
  }
}
```

import {NgControl} from './ng_control';
import {normalizeAsyncValidator, normalizeValidator} from './normalize_validator';
import {NumberValueAccessor} from './number_value_accessor';
import {RadioControlValueAccessor} from './radio_control_value_accessor';
import {RangeValueAccessor} from './range_value_accessor';
import {FormArrayName} from './reactive_directives/form_group_name';
import {ReactiveErrors} from './reactive_errors';
import {SelectControlValueAccessor} from './select_control_value_accessor';
import {SelectMultipleControlValueAccessor} from './select_multiple_control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function controlPath(name: string | null, parent: ControlContainer): string[] {
  return [...parent.path !, name !];
}

export function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');
  if (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');

  control.validator = Validators.compose([control.validator !, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);
  dir.valueAccessor!.writeValue(control.value);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);

  setUpBlurPipeline(control, dir);

  if (dir.valueAccessor!.setDisabledState) {
    control.registerOnDisabledChange((isDisabled: boolean) => {
      dir.valueAccessor!.setDisabledState(!isDisabled);
    });
  }

  // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  dir._rawValidators.forEach((validator: Validator | ValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange) (validator: Validator | ValidatorFn) => {
      if (control.updateValueAndValidity) control.updateValueAndValidity();
    });
  });

  dir._rawAsyncValidators.forEach((validator: AsyncValidator | AsyncValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange) (validator: AsyncValidator | AsyncValidatorFn) => {
      if (control.updateValueAndValidity) control.updateValueAndValidity();
    });
  });

  if (control) control._clearChangeFns();
}

function setUpFormContainer(control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName) {
  if (control == null) _throwError(dir, 'Cannot find control with');
  control.validator = Validators.compose([control.validator, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function _noControlError(dir: NgControl) {
  return _throwError(dir, 'There is no FormControl instance attached to form control element with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path!.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path?.length > 0) {
    if (dir) messageEnd = name: '${dir.path}' no messageEnd = 'unspecified name attribute';
  else if (dir.path != 0) {
    messageEnd = name: '${dir.path}' no messageEnd = 'unspecified name attribute';
  }

  throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators:}
Array<Validator|ValidatorFn>|null { return validators !== null ? Validators.compose(validators.map(normalizeValidator)) : null; }\nexport function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>|null { return validators !== null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null; }\nexport function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean { return changes.hasOwnProperty('model') ? !changes.hasOwnProperty('model') : return false; }\nconst BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor];\nexport function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean { return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a); }\nexport function syncPendingControls(form: FormGroup, directives: NgControl[]): void { form._syncPendingControls(); directives.forEach(dir => { const control = dir.control as FormControl; if (control.updateOn === 'submit' && control._pendingChange) dir.viewToModelUpdate(control._pendingValue); control._pendingChange = false; }); }\n// TODO: vsavkin remove it once

export function removeDir<T>(list: T[], el: T): void { const index = list.indexOf(el); if (index > -1) list.splice(index, 1); }\nexport function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) { if (!isDevMode() || warningConfig === 'never') return; if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) || (warningConfig === 'always' && !instance._ngModelWarningSent)) ReactiveErrors.ngModelWarning(name); type._ngModelWarningSentOnce = true; instance._ngModelWarningSent = true; }\n
import {EventEmitter} from '@angular/core'; import {Observable} from 'rxjs'; import {composeAsyncValidators, composeValidators} from './directives/shared'; import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators'; import {toObservable} from './validators';

/**
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 * that can be found in the LICENSE file at https://angular.io/license
 */

export const VALID = 'VALID';

export const INVALID = 'INVALID';

export const PENDING = 'PENDING';

export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) { if (path == null) return null; if (!Array.isArray(path)) { path = path.split(delimiter); } if (Array.isArray(path) && path.length === 0) { return null; }
return null;

// Not using Array.reduce here due to a Chrome 80 bug
https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
let controlToFind: AbstractControl | null = control;
path.forEach((name: string | number) => {
  if (controlToFind instanceof FormGroup) {
    controlToFind = controlToFind.controls[name as string] || null;  
  } else if (controlToFind instanceof FormArray) {
    controlToFind = controlToFind.at(<number>name) || null;  
  } else {  
    controlToFind = null;
  }
  return
});

// Not using Array.reduce here due to a Chrome 80 bug
https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
let controlToFind: AbstractControl | null = control;
path.forEach((name: string | number) => {
  if (controlToFind instanceof FormGroup) {
    controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
      controlToFind.controls[name] : null;
  } else if (controlToFind instanceof FormArray) {
    controlToFind = controlToFind.at(<number>name) || null;
  } else {
    controlToFind = null;
  }
});

return controlToFind;

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[]) {
  const validator =
    (isOptionsObj(validatorOrOpts) ?
     (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn | ValidatorFn[] | null;

  return Array.isArray(validator) ? composeValidators(validator) : validator ||
                                     null;
}

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[]) {
  const origAsyncValidator =
    (isOptionsObj(asyncValidator) ? (asyncValidator as AbstractControlOptions).asyncValidators :
                                      asyncValidator) as AsyncValidatorFn | AsyncValidatorFn[] | null;

  return Array.isArray(origAsyncValidator) ?
    composeAsyncValidators(origAsyncValidator) : origAsyncValidator;
}

export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an
 * `AbstractControl`.
 *
 * @publicApi
 */
export interface AbstractControlOptions {
  /**
   * @description
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn | ValidatorFn[] | null;
  /**
   * @description
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn | AsyncValidatorFn[] | null;
  /**
   * @description
   * The event name for control to update
   */
  updateOn?: FormHooks;
}

function isOptionsObj(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null &&
         !Array.isArray(validatorOrOpts) &&
         typeof validatorOrOpts === 'object';
}

/**
 * This is the base class
 * for `FormControl`, `FormGroup`, and `FormArray`.
 *
 * It provides some of the shared behavior that all controls
 * and groups of controls have, like
 * running validators, calculating status, and resetting state. It also defines
 * the properties
 * that are shared between all sub-classes, like `value`, `valid`, and `dirty`.
 * It shouldn't be
 * instantiated
 * directly.
 */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty!: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched!: boolean;

  /** @internal */
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn!: FormHooks;

  // TODO(issue/24571): remove '!'.
  private _parent!: FormGroup | FormArray;

  /**
   * The current value of the control.
   */
  // TODO(issue/24571): remove '!'.
  public readonly value!: any;

  /**
   * Initialize the AbstractControl instance.
   */
  constructor(public validator: ValidatorFn | null, public asyncValidator: AsyncValidatorFn | null) {
    this._parent = null;
  }

  /**
   * The parent control.
   */
  public get parent(): FormGroup | FormArray {
    return this._parent;
  }
}

// Open Source Used In MSX Platform Services 4.0.0 6573
Open Source Used In MSX Platform Services 4.0.0  

```typescript
/**
 * Marks the control as `touched`. A control is `touched` by focus and
 * blur events that do not change the
 * new validation to take effect.
 *
 */
clearAsyncValidators(): void { this.asyncValidator = null; }

/**
 * Empties out the async validator list.
 *
 */
clearValidators(): void { this.validator = null; }

/**
 * Empties out the sync validator list.
 *
 * When you add or remove a validator at run time, you must call
 */
setAsyncValidators(newValidator: AsyncValidatorFn|AsyncValidatorFn[]|null): void { this.asyncValidator = coerceToAsyncValidator(newValidator); }

/**
 * Sets the async validators that are active on this
 *
 */
setValidators(newValidator: ValidatorFn|ValidatorFn[]|null): void {
  this.validator = coerceToValidator(newValidator);
}

/**
 * A multicasting observable that emits an event every time the value of the control changes, in
 *
 * It also emits an event each time you call enable() or disable() on
 *
 * @param opts Configuration options that determine how the control propagates changes and
 * are not included in the aggregate value of their ancestor
 */
returns True if the control has changed all of its validation tests,

**/
marking is applied.

```
* `onlySelf`: When true, mark only this control. When false or not supplied,
* marks all direct ancestors. Default is false.

```

```typescript
markAsTouched(opts: {onlySelf?: boolean} = {}): void {
  (this as AbstractControl).touched = true;
  if (this._parent && !opts.onlySelf) {
    this._parent.markAsTouched(opts);
  }

  // Marks the control and all its descendant controls as 'touched'.
  this._forEachChild((control: AbstractControl) => control.markAsTouched());
}

markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
  (this as AbstractControl).touched = false;
  if (this._parent && !opts.onlySelf) {
    this._parent.markAsUntouched(opts);
  }

  this._forEachChild((control: AbstractControl) => control.markAsUntouched({onlySelf: true}));
}

markAsDirty(opts: {onlySelf?: boolean} = {}): void {
  (this as AbstractControl).pristine = false;
  this._pendingDirty = false;
  if (this._parent && !opts.onlySelf) {
    this._parent.markAsDirty(opts);
  }
}

markAsPristine(opts: {onlySelf?: boolean} = {}): void {
  (this as AbstractControl).pristine = true;
  this._pendingDirty = false;
  if (this._parent && !opts.onlySelf) {
    this._parent.markAsPristine(opts);
  }
}

markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);

  // If parent has been marked artificially dirty we don't want to re-calculate the
  // parent's dirtiness based on the children.
  this._parentMarkedDirty((control: AbstractControl) => control.markAsPending());
}
```

```
* `onlySelf`: When true, mark only this control. When false or
  not supplied, marks all direct ancestors. Default is false.

```

```typescript
disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-calculate the
  // parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);

  // If parent has been marked artificially dirty we don't want to re-calculate the
  // parent's dirtiness based on the children.
  this._parentMarkedDirty((control: AbstractControl) => control.markAsPending());
}
(this as {status: string}).status = DISABLED;
(this as {errors: ValidationErrors | null}).errors = null;
this._forEachChild((control: AbstractControl) => {
  control.disable({...opts, onlySelf: true}); });
this._updateValue();
if (opts.emitEvent !== false) {
  (this.valueChanges as EventEmitter<any>).emit(this.value);
  (this.statusChanges as EventEmitter<string>).emit(this.status);
}
this._updateAncestors({...opts, skipPristineCheck});
this._onDisabledChange.forEach((changeFn) => changeFn(true));

/**
 * Enables the control. This means the control is included in validation checks and
 * the aggregate value of its parent. Its status recalculates based on its value and * its validators. *
 * By default, if the control has children, all children are enabled. *
 * @param opts Configure options that control how the control propagates changes and *
 * emits events when marked as untouched. *
 * * `onlySelf`: When true, mark only this control. When false or not supplied, * marks *
 * all direct ancestors. Default is false. *
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and *
 * `valueChanges` observables emit events with the latest status and value when the *
 * control is enabled. *
 * When false, no events are emitted. *
 * * @param parent *
 * Sets the parent of the control. *
 * @param opts Configuration options determine how the control propagates changes and emits events after updates and validity checks are applied. *
 * * `onlySelf`: When true or not supplied, * marks all direct ancestors. Default is false. *
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and *
 * `valueChanges` observables emit events with the latest status and value when the control is updated. *
 * When false, no events are emitted. *
 * * @param opts Configuration options determine how the control propagates changes and emits events after updates and validity checks are applied. *
 * * `onlySelf`: When true or not supplied, * marks all direct ancestors. Default is false. *
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and *
 * `valueChanges` observables emit events with the latest status and value when the control is updated. *
 * When false, no events are emitted. */
this.enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  (this as {status: string}).status = VALID;
  this._forEachChild((control: AbstractControl) => {
    control.enable({...opts, onlySelf: true}); });
  this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
  this._updateAncestors({...opts, skipPristineCheck});
  this._onDisabledChange.forEach((changeFn) => changeFn(false));
}

/**
 * @param parent *
 * Sets the parent of the control
 */
setParent(parent: FormGroup|FormArray): void {
  this._parent = parent;
}

/**
 * Sets the value of the control. Abstract method (implemented in sub-classes).
 */
abstract setValue(value: any, options?: Object): void;

/**
 * Patches the value of the control. Abstract method (implemented in sub-classes).
 */
abstract patchValue(value: any, options?: Object): void;

/**
 * Resets the control. Abstract method (implemented in sub-classes).
 */
abstract reset(value?: any, options?: Object): void;

/**
 * Recalculates the value and validation status of the control.
 * By default, it also updates the value and validity of its ancestors.
 * * `onlySelf`: When true, only update this control. When false or not supplied, * update all direct ancestors. Default is false. *
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and *
 * `valueChanges` observables emit events with the latest status and value when the control is updated. *
 * When false, no events are emitted. *
 * @param opts Configure options that control how the control propagates changes and emits events after updates and validity checks are applied. *
 * * `onlySelf`: When true or not supplied, * marks all direct ancestors. Default is false. *
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and *
 * `valueChanges` observables emit events with the latest status and value when the control is updated. *
 * When false, no events are emitted. *
 * * @param opts Configuration options determine how the control propagates changes and emits events after updates and validity checks are applied. *
 * * `onlySelf`: When true or not supplied, * marks all direct ancestors. Default is false. *
 * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and *
 * `valueChanges` observables emit events with the latest status and value when the control is updated. *
 * When false, no events are emitted. */
updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  (this as {status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;
  this._forEachChild((control: AbstractControl) => {
    control.disable({...opts, onlySelf: true}); });
  this._updateValue();
  if (this.enabled) {
    this._cancelExistingSubscription();
  }
  (this as {errors: ValidationErrors | null}).errors = this._runValidator();
  (this as {status: string}).status = this._calculateStatus();
  if (this.status === VALID || this.status === PENDING) {
    this._runAsyncValidator(opts.emitEvent);
  }
  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }
  if (this._parent && !opts.onlySelf) {
    this._parent.updateValueAndValidity(opts);
  }
}

/**
 * Private methods *
 */
private _setInitialStatus(): void {
  (this as {status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;
}
private _runValidator(): ValidationErrors|null {
  return this.validator ? this.validator(this) : null;
}
private _runAsyncValidator(emitEvent?: boolean) {
  if (this.asyncValidator) {
    (this as {status: string}).status = PENDING;
    this._asyncValidationSubscription = toObservable(this.asyncValidator(this)).subscribe((errors: ValidationErrors | null) => this._setErrors(errors, {emitEvent}));
  }
}
private _updateAncestors({...opts, skipPristineCheck})

_anyControlsDirty(): boolean {\n return this._anyControls((control: AbstractControl) => control.dirty);\n }\n\n
/** @internal */\n _anyControlsTouched(): boolean {\n return this._anyControls((control: AbstractControl) =>
control.touched);\n }\n\n /** @internal */\n _updatePristine(opts: {onlySelf?: boolean} = {}): void {\n (this
as{pristine: boolean}).pristine = !this._anyControlsDirty();\n\n if (this._parent && !opts.onlySelf) {\n
this._parent._updatePristine(opts);\n }\n }\n\n /** @internal */\n _updateTouched(opts: {onlySelf?: boolean} =
{}): void {\n (this as{touched: boolean}).touched = this._anyControlsTouched();\n\n if (this._parent &&
!opts.onlySelf) {\n
this._parent._updateTouched(opts);\n }\n }\n\n /** @internal */\n _onDisabledChange:
Function[] = [];\n\n /** @internal */\n _isBoxedValue(formState: any): boolean {\n return typeof formState ===
'object' && formState !== null &&\n
Object.keys(formState).length === 2 && 'value' in formState &&
'disabled' in formState;\n }\n\n /** @internal */\n _registerOnCollectionChange(fn: () => void): void {
this._onCollectionChange = fn; }\n\n /** @internal */\n _setUpdateStrategy(opts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {\n if (isOptionsObj(opts) && (opts as
AbstractControlOptions).updateOn != null) {\n
this._updateOn = (opts as AbstractControlOptions).updateOn !;\n
}\n }\n\n /**\n * Check to see if parent has been marked artificially dirty.\n *\n * @internal\n */\n private
_parentMarkedDirty(onlySelf?: boolean): boolean {\n const parentDirty = this._parent && this._parent.dirty;\n
return !onlySelf && parentDirty && !this._parent._anyControlsDirty();\n }\n}\n\n/**\n * Tracks the value and
validation status of an individual form control.\n *\n * This is one of the three fundamental building blocks of
Angular forms, along with\n * `FormGroup` and `FormArray`. It extends the `AbstractControl` class that\n *
implements most of the base functionality for accessing the value, validation status,\n * user interactions and
events.\n *\n * @see `AbstractControl`\n * @see [Reactive Forms Guide](guide/reactive-forms)\n * @see [Usage
Notes](#usage-notes)\n *\n * @usageNotes\n *\n * ### Initializing Form Controls\n *\n * Instantiate a
`FormControl`, with an initial value.\n *\n * ```ts\n * const control = new FormControl('some value');\n *
console.log(control.value); // 'some value'\n *```\n *\n * The following example initializes the control with a form
state object. The `value`\n * and `disabled` keys are required in this case.\n *\n * ```ts\n * const control = new
FormControl({ value: 'n/a', disabled: true });\n * console.log(control.value); // 'n/a'\n * console.log(control.status);
// 'DISABLED'\n * ```\n *\n * The following example initializes the control with a sync validator.\n *\n * ```ts\n *
const control = new FormControl('', Validators.required);\n * console.log(control.value);
// ''\n *
console.log(control.status); // 'INVALID'\n * ```\n *\n * The following example initializes the control using an
options object.\n *\n * ```ts\n * const control = new FormControl('', {\n * validators: Validators.required,\n *
asyncValidators: myAsyncValidator\n * });\n * ```\n *\n * ### Configure the control to update on a blur event\n *\n
* Set the `updateOn` option to `'blur'` to update on the blur `event`.\n *\n * ```ts\n * const control = new
FormControl('', { updateOn: 'blur' });\n * ```\n *\n * ### Configure the control to update on a submit event\n *\n *
Set the `updateOn` option to `'submit'` to update on a submit `event`.\n *\n * ```ts\n * const control = new
FormControl('', { updateOn: 'submit' });\n * ```\n *\n * ### Reset the control back to an initial value\n *\n * You
reset to a specific form state by passing through a standalone\n * value or a form state object that contains both a
value and a disabled state\n * (these are the only two properties that cannot be calculated).\n *\n * ```ts\n * const
control = new FormControl('Nancy');\n *\n * console.log(control.value); // 'Nancy'\n *\n * control.reset('Drew');\n
*\n * console.log(control.value); // 'Drew'\n * ```\n *\n * ### Reset the control back to an initial value and disabled\n
*\n * ```\n * const control = new FormControl('Nancy');\n *\n * console.log(control.value); // 'Nancy'\n *
console.log(control.status); // 'VALID'\n *\n * control.reset({ value: 'Drew', disabled: true });\n *\n *
console.log(control.value); // 'Drew'\n * console.log(control.status); // 'DISABLED'\n * ```\n *\n * @publicApi\n
*/\nexport class FormControl extends AbstractControl {\n /** @internal */\n _onChange: Function[] = [];\n\n /**
@internal */\n _pendingValue: any;\n\n /** @internal */\n _pendingChange: any;\n\n /**\n * Creates a new
`FormControl` instance.\n *\n * @param formState Initializes the control with an initial value,\n * or an object
that defines the initial value and disabled state.\n *\n * @param validatorOrOpts A synchronous validator function,
or an array of\n * such functions, or an `AbstractControlOptions` object that contains validation functions\n * and a
validation trigger.\n *\n * @param asyncValidator A single async validator or array of async validator functions\n
*\n */\n constructor(\n
formState: any = null,\n
validatorOrOpts?:

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ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null) { 
  super(
    coerceToValidator(validatorOrOpts),
    this._applyFormState(formState); 
  this._setUpdateStrategy(validatorOrOpts); 
  this.updateValueAndValidity({onlySelf: true, emitEvent: false}); 
  this._initObservables(); 
  /* */ Sets a new value for the form control.
  * @param value The new value for the control. 
  * @param options Configuration options that determine how the control propagates changes 
  * and emits events when the value changes.
  * The configuration options are passed to the [AbstractControl#updateValueAndValidity] method.
  * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
  * `emitEvent`: When true or not supplied (the default), both the 'statusChanges' and 'valueChanges' observables emit events with the latest status and value when the control value is updated.
  * When false, no events are emitted.
  * `emitModelToViewChange`: When true or not supplied (the default), each change triggers an 
  * `EventManager` event to update the view.
  * `emitToModelChange`: When true or not supplied (the default), each change triggers an 
  * `ngFormControl` event to update the model.
  * `setValue(value: any, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}) { 
    (this as {value: any}).value = this._pendingValue = value;
    if (this._onChange.length && options.emitModelToViewChange !== false) {
      this._onChange.forEach((changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));
    }
    this.updateValueAndValidity(options);
  }
  // Patches the value of a control.
  * `reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}) { 
    this._applyFormState(formState);
    this.markAsPristine(options);
    this.markAsUntouched(options);
    this.setValue(this.value, options);
    this._pendingChange = false;
  }
  private _applyFormState(formState: any) {
    if (this._isBoxedValue(formState)) {
      (this as {value: any}).value = this._pendingValue = formState.value;
      formState.disabled ? this.disable({onlySelf: true, emitEvent: false}) : this.enable({onlySelf: true, emitEvent: false});
    } else {
      (this as {value: any}).value = this._pendingValue = formState;
    }
  }
}
Tracks the value and validity state of a group of `FormControl` instances. A `FormGroup` aggregates the values of each child `FormControl` into one object, along with `FormControl` and `FormArray`.

When instantiating a `FormGroup`, pass in a collection of child controls as the first argument. The argument for each child registers the name for the control and allows you to include group-level validators or async validators.

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if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    delete (this.controls[name]);
    if (control) this.registerControl(name, control);
    this.updateValueAndValidity();

  this._onCollectionChange();

  /**
   * Check whether there is an enabled control with the given name in the group.
   * @param name The name of the control to check for existence in the collection
   * @returns false for disabled controls, true otherwise.
   * contains(controlName: string): boolean { return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled; }

  /**
   * Sets the value of the 'FormGroup'. It accepts an object that matches the structure of the group, with control names as keys.
   * @param value The new value for the control that matches the structure of the group.
   * @param options Configuration options that determine how the control propagates changes and emits events after the value changes.
   * The configuration options are passed to the @link AbstractControl#updateValueAndValidity method.
   * `onlySelf`: When true, each change only affects this control, and not its parent.
   * `emitEvent`: When true or not supplied (the default), both the 'statusChanges' and 'valueChanges' observables emit events with the latest status and value when the control value is updated.
   * When false, no events are emitted.
   * `updateValueAndValidity(options): void` Patches the value of the 'FormGroup'. It accepts an object with control names as keys, and does its best to match the values to the correct controls in the group.
   * It accepts both super-sets and sub-sets of the group without throwing an error.
   * `updateValueAndValidity(onlySelf: boolean, emitEvent?: boolean): void` resets the 'FormGroup', marks all descendants are marked 'pristine' and 'untouched', and the value of all descendants to null.
   * You reset to a specific form state by passing in a map of states that matches the structure of your form, with control names as keys. The state
   * is a standalone value or a form state object with both a value and a disabled status.
   * `patchValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean}): void` Patches the value of the form group's descendants.
   * When true or not supplied (the default), both the 'statusChanges' and 'valueChanges' observables emit events with the latest status and value when the control value is updated.
   * When false, no events are emitted.
   * `reset(onlySelf?: boolean, emitEvent?: boolean): void` Resets the control with an initial value, or an object that defines the initial value and disabled state.
   * The configuration options are passed to the @link AbstractControl#updateValueAndValidity method.
   */

  if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
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  this.updateValueAndValidity();

  this._onCollectionChange();

  /**
   * Check whether there is an enabled control with the given name in the group.
   * @param name The name of the control to check for existence in the collection
   * @returns false for disabled controls, true otherwise.
   * contains(controlName: string): boolean { return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled; }

  /**
   * Sets the value of the 'FormGroup'. It accepts an object that matches the structure of the group, with control names as keys.
   * @param value The new value for the control that matches the structure of the group.
   * @param options Configuration options that determine how the control propagates changes and emits events after the value changes.
   * The configuration options are passed to the @link AbstractControl#updateValueAndValidity method.
   * `onlySelf`: When true, each change only affects this control, and not its parent.
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   * You reset to a specific form state by passing in a map of states that matches the structure of your form, with control names as keys. The state
   * is a standalone value or a form state object with both a value and a disabled status.
   * `patchValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean}): void` Patches the value of the form group's descendants.
   * When true or not supplied (the default), both the 'statusChanges' and 'valueChanges' observables emit events with the latest status and value when the control value is updated.
   * When false, no events are emitted.
   * `reset(onlySelf?: boolean, emitEvent?: boolean): void` Resets the control with an initial value, or an object that defines the initial value and disabled state.
   * The configuration options are passed to the @link AbstractControl#updateValueAndValidity method.
   */

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AbstractControl#updateValueAndValidity

* updateValueAndValidity

* Update the form control value

* Controls in a `FormGroup` is invalid, the entire array becomes invalid.

* `FormArray` is one of the three fundamental building blocks used to define forms in Angular.

* * `FormArray` or `FormArray` instances.

* A `FormArray` aggregates the values of each child `FormControl` into an array.

* It calculates its status by reducing the status values of its children. For example, if one of its children is invalid, the entire array becomes invalid.

* `FormArray` is one of the three fundamental building blocks used to define forms in Angular.

* * along with `FormControl` and `FormGroup`.

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* `FormArray` is one of the three fundamental building blocks used to define forms in Angular.
The two types of validators are passed in separately as the second and third arg respectively, or together as part of an options object. The options object is used to set a default value for each child control’s ‘updateOn’ property. If you set ‘updateOn’ to ‘blur’ at the array level, all child controls default to ‘blur’, unless the child control has explicitly specified a different ‘updateOn’ value. The options object is used to set a default value for each child control’s ‘updateOn’ property. If you set ‘updateOn’ to ‘blur’ at the array level, all child controls default to ‘blur’, unless the child control has explicitly specified a different ‘updateOn’ value.

```ts
const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], {validators: myValidator, asyncValidators: myAsyncValidator});
```

### Set the updateOn property for all controls in a form array

To change the controls in the array, use the `push`, `insert`, `removeAt` or ‘clear’ methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that result in strange and unexpected behavior such as broken change detection.

```ts
const arr = new FormArray([], {validators: myValidator, asyncValidators: myAsyncValidator});
```

### Adding or removing controls from a form array

To add or remove controls from a form array, use the `push`, `insert`, `removeAt` or `clear` methods.

```ts
arr.push(new FormControl());
arr.insert(0, new FormControl());
arr.removeAt(0);
arr.setControl(0, new FormControl());
```
latest status and value when the control value is updated.

- When false, no events are emitted.
- The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.
- `value`: any [], options: {onlySelf?: boolean, emitEvent?: boolean} = {};

```typescript
this._checkAllValuesPresent(value).forEach((newValue: any, index, number) => {
  this._throwIfControlMissing(index);
  this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
});
```

- Patches the values of the `'FormArray'`. It accepts an array that matches the structure of the control, and does its best to match the values to the correct controls in the group.
- It accepts both super-sets and sub-sets of the array without throwing an error.

```typescript
setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value).forEach((newValue: any, index, number) => {
    this._throwIfControlMissing(index);
    this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
  });
  this.updateValueAndValidity(options);
}
```

- The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.

```typescript
patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  value.forEach((newValue: any, index) => {
    if (this.at(index)) {
      this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}
```

- The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.

```typescript
reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._forEachChild((control: AbstractControl, index: number) => {
    control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this._updatePristine(options);
  this._updateTouched(options);
  this.updateValueAndValidity(options);
}
```

- The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.

```typescript
getRawValue(): any[] {
  return this.controls.map((control: AbstractControl) => {
    return control instanceof FormControl ? control.value : (<any>control).getRawValue();
  });
}
```

- The `FormArray` and all descendants are marked `'pristine'` and `'untouched'`, and the value of all descendants to null or null maps.

- You reset to a specific form state by passing in an array of states that matches the structure of the control. The state is a standalone value or a form state object with both a value and a disabled status.

```
reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._forEachChild((control: AbstractControl, index: number) => {
    control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this._updatePristine(options);
  this._updateTouched(options);
  this.updateValueAndValidity(options);
}
```
arr.removeAt(0);\n  }\n  * clear(): void {\n    if (this.controls.length < 1) return;\n    this.controls.splice(0);\n  }\n  * updateValueAndValidity(): boolean {\n    let subtreeUpdated = this.controls.reduce((updated, child: AbstractControl) => {\n      return updated || child._syncPendingControls();\n    }, false);\n    if (subtreeUpdated)\n      this.updateValueAndValidity();\n  }\n
  clear(): void {
    if (this.controls.length < 1) return;
    this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
    this.controls.splice(0);
    this.updateValueAndValidity();
  }

  /** @internal */
  _syncPendingControls(): boolean {
    let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {\n      return child._syncPendingControls() ? true : updated;\n    }, false);\n    if (subtreeUpdated)
      this.updateValueAndValidity({onlySelf: true});
    return subtreeUpdated;
  }

  /** @internal */
  _throwIfControlMissing(index: number): void {
    if (!this.controls.length) {
      throw new Error(`\n        There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).\n      `);
    }
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index: ${index}.`);
    }
  }

  /** @internal */
  _forEachChild(cb: Function): void {
    this.controls.forEach((control: AbstractControl, index: number) => { cb(control, index); });
  }

  /** @internal */
  _updateValue(): void {
    (this as{value: any}).value =
        this.controls.filter((control) => control.enabled
          || this.disabled)
            .map((control) => control.value);
  }

  /** @internal */
  _anyControls(condition: Function): boolean {
    return this.controls.some((control: AbstractControl) => condition(control));
  }

  /** @internal */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl) => this._registerControl(control));
  }

  /** @internal */
  _checkAllValuesPresent(value: any): void {
    this._forEachChild((control: AbstractControl, i: number) => {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }
}
ngFormOptions.

```html
<form [ngFormOptions]="{updateOn: 'blur'}">
  <input name="one" ngModel>  <!-- this ngModel will update on blur -->
</form>
```

### Native DOM validation UI

In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever a public readonly submitted: boolean = false;

```
@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
...in *</form>
```

```html
<form ngNativeValidate>
  ...
</form>
```

@Input('ngFormOptions') options !: {updateOn?: FormHooks};

```html
<FormControl>container.registerControl(dir.name, dir.control);
  setUpControl(dir.control, dir);
  dir.control.updateValueAndValidity({emitEvent: false});
  this._directives.push(dir);
</FormControl>
```

```html
controls: {
  [key: string]: AbstractControl
}

this.controls = new FormArray(dir.controls);
```

```html
<FormControl>container.registerControl(dir.name, dir.control);
  setUpControl(dir.control, dir);
  dir.control.updateValueAndValidity({emitEvent: false});
  this._directives.push(dir);
</FormControl>
```

```html
FormControl);]
```

```html
FormControl);]
```

```html
FormControl);]
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```html
FormControl);]
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FormControl);]
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FormControl);]
```

```html
FormControl);]
```

```html
FormControl);]
```

```html
FormControl);]
```
for a provided `NgModelGroup` directive instance.

```typescript
getFormGroup(dir: NgModelGroup): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}
```

Sets the new value for the provided `NgControl` directive.

```typescript
setModel(value: any): void {
  if (null == this.resolvedPromise.then()) {
    this.formDirective.getFormGroup(dir).setValue(value);
  } else {
    this.resolvedPromise.then(() => {
      this.control.setValue(value);
    });
  }
}
```

Method called when the `\submit` event is triggered on the form.

```typescript
submit(dir: NgModelGroup): void {
  this.control.setValue(dir.value);
}
```

Method called when the `\reset` event is triggered on the form.

```typescript
reset(dir: NgControl): void {
  this.control.setValue(null);
}
```

Sets the value for this `FormGroup`.

```typescript
setModelGroup(dir: NgModelGroup): void {
  this.control.setValue(dir.value);
}
```

Sets the value for the directive's control.

```typescript
updateModel(dir: NgControl, value: any): void {
  const ctrl = <FormControl>this.form.get(dir.path);
  ctrl.setValue(value);
}
```

Method called when the `\submit` event is triggered as its payload.

```typescript
syncPendingControls(): void {
  this.formDirective.syncPendingControls();
}
```

**Public API**

- `AbstractFormGroupDirective` extends `ControlContainer` and implements `OnInit, OnDestroy`.

- `getFormGroup(dir: NgModelGroup): FormGroup` returns the form group associated with the provided directive.

- `setModel(value: any): void` sets the value for the provided `NgControl` directive.

- `submit(dir: NgModelGroup): void` submits the form group.

- `reset(dir: NgControl): void` resets the control.

- `setModelGroup(dir: NgModelGroup): void` sets the value for the provided `NgModelGroup` directive.

- `syncPendingControls(): void` synchronizes pending controls with the form group.

**Usage Notes**

- Use the `AbstractFormGroupDirective` class to create a group of form controls.

- Implement the `OnInit` and `OnDestroy` lifecycle hooks to handle initial and destroy events.

- Use the `getFormGroup()` method to access the form group associated with a directive.

- Set the value for a control using the `setModel()` method.

- Submit the form group using the `submit()` method.

- Reset a control using the `reset()` method.

- Set the value for a `NgModelGroup` directive instance using the `setModelGroup()` method.

- Sync pending controls with the form group using the `syncPendingControls()` method.

**Additional Resources**

- [GitHub Repository](https://github.com/angular/angular)

- [Documentation](https://angular.io/guide/forms)

- [Examples](https://angular.io/guide/forms/examples)
Example:

```javascript
// Example of using ngModelGroup

// Create a form group for a sub-group of controls
    const subFormGroup = new FormGroup({
      firstName: new FormControl(),
      lastName: new FormControl()
    });

// Add the sub-group to the main form
    const mainFormGroup = new FormGroup({
      sub: ngModelGroup(subFormGroup)
    });
```

### Represents

* A local template variable using `ngModelGroup` (ex:
  `#myGroup="ngModelGroup"`).
* A control used to combine controls together in a sub-group of the form.
* A way to track the name of the `NgModelGroup` bound to the directive.
* A way to track the name of the `NgModelGroup` bound to the directive.

### Usage Notes

* You can use `NgModelGroup` in place of `NgModel` within `<form>` tags.
* It allows you to create a sub-group of controls separately from the rest of your form.
* It can be used with a `FormGroup` or `FormArray`.
* It can be used with a `FormGroup` or `FormArray`.

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{composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor, setUpControl} from './shared\import {TemplateDrivenErrors} from './template_driven_errors\import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel\n}

* `ngModel` forces an additional change detection run when its inputs change:
* E.g.:\n
`<div>
  {{myModel.valid}}
</div>`\n
* `input [(ngModel)]="\$myValue"`\n* `ngModel="\$myModelValue"`\n* I.e. \n* `ngModel` can export itself on the element and then be used in the template.
* Normally, this would result in expressions before the `input` that use the exported directive\n* to have and old value as they have been\n* dirty checked before. As this is a very common case for `ngModel`, we added this second change\n* detection run.

* Notes:\n* - this is just one extra run no matter how many `ngModel` have been changed.
* - this is a general problem when using `exportAs` for directives.

* `ngModel` selector to activate it:\n* - It accepts a domain model as an optional `Input`.
* If you have a one-way binding\n* to `ngModel` with `[]` syntax, changing the value of the domain model in the component\* class sets the value in the view. If you have a two-way binding with `[]` syntax\n* (also known as `banana-box syntax`), the value in the UI always syncs back to\n* the domain model in your class.

To inspect the properties of the associated `FormControl` (like validity state), `*` export the directive into a local template variable using `ngModel` as the key (ex: `:myVar="\$ngModelValue"`).\n* You then access the control using the directive's `control` property, but most properties used (like valid and dirty) fall through to the control anyway for direct access.

* See a full list of properties directly available in `AbstractControlDirective`.\n* `@see` `RadioControlValueAccessor`\n* `@see` `SelectControlValueAccessor`\n* `@usageNotes`\n
* Using `ngModel` on a standalone control\n
* The following examples show a simple standalone control using `ngModel`:

* When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute\n* so that the control can be registered with the parent form under that name.\n
* In the context of a parent form, it's often unnecessary to include one-way or two-way binding,\n* as the parent form syncs the value for you. You access its properties by exporting it into a\n* local template variable using `ngForm` such as (`#f="#\$ngForm\"`). Use the\n* variable where needed on form submission.

* Notes:\n* - you do need to populate initial values into your form,\n* using a one-way binding for\n* `ngModel` tends to be sufficient as long as you use the exported form's value\n* rather\n* than the domain model's value on submit.\n
* Using `ngModel` with a group\n
* The following example shows controls using `ngModel` within a form:\n
* When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute\n* so that the control can be registered with the parent form under that name.\n
* In the context of a parent form, it's often unnecessary to include one-way or two-way binding,\n* as the parent form syncs the value for you. You access its properties by exporting it into a\n* local template variable using `ngForm` such as (`#f="#\$ngForm\"`). Use the\n* variable where needed on form submission.

* Notes:\n* - you do need to populate initial values into your form,\n* using a one-way binding for\n* `ngModel` tends to be sufficient as long as you use the exported form's value\n* rather\n* than the domain model's value on submit.\n
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* The following example shows controls using `ngModel` within a form:\n
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The `ngModel` directive sets the new value for the view model and emits an `ngModelChange` event. It manages the value of a form control, updating it in response to changes in the input. The directive maintains the latest value, rendering the input invalid if the new value conflicts with validation rules. It also supports two-way binding, allowing the value to be bound to a parent model.

The `ngModel` directive registers itself as a control in the parent form (or standalone) if `name` is not specified. It includes lifecycle methods for initialization, updates, and destruction. The directive checks for changes in the input, notifying listeners of any changes. It also handles validation rules, ensuring the value is within specified limits.

The `NgModel` class provides methods for setting the value, checking for changes, and registering validators. It also includes a constructor for creating a new `NgModel` instance, which takes options such as name, validators, and async validators. The directive uses the `ngModelChange` event to notify listeners of changes and to emit the new value.
private _setUpStandalone(): void {
    setUpControl(this.control, this);
}

private _checkForErrors(): void {
    if (!this._isStandalone()) {
        this._checkParentType();
    }
    this._checkName();
}

private _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) &&
        this._parent instanceof AbstractFormGroupDirective) {
        TemplateDrivenErrors.formGroupNameException();
    } else if (!this._parent instanceof NgModelGroup) {
        TemplateDrivenErrors.modelParentException();
    }
}

private _checkName(): void {
    if (this.options && this.options.name) this.name = this.options.name;

    if (!this._isStandalone() && !this.name) {
        TemplateDrivenErrors.missingNameException();
    }
}

private _updateValue(value: any): void {
    resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}

private _updateDisabled(changes: SimpleChanges) {
    const disabledValue = changes['isDisabled'].currentValue;

    const isDisabled = disabledValue === ''
                      || (disabledValue && disabledValue !== 'false');

    resolvedPromise.then(() => {
        if (isDisabled && !this.control.disabled) {
            this.control.disable();
        } else if (!isDisabled && this.control.disabled) {
            this.control.enable();
        }
    });
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive} from '@angular/core';

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 *
 * `novalidate` is used to disable browser's native form validation.
 *
 * If you want to use native validation with
 * Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
    selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
    host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and
 * formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
    provide: NgControl,
    useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see 
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```
 * {@example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}
 * ```
 *
 * ### Use with ngModel
 *
 * Support for using the 'ngModel' input property and 'ngModelChange' event with reactive
 *
 * form directives has been deprecated in Angular v6 and will be removed in a future version
 * of Angular.
* this.value = 'some value';

This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.

To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.

After (choice 1 - use reactive forms):

```html
<input [formControl]="control">
```

```ts
this.control.setValue('some value');
```

After (choice 2 - use template-driven forms):

```html
<input [(ngModel)]="value">
```

```ts
this.value = 'some value';
```
this.viewModel = this.model;
/**
 * Returns an array that represents the path from the top-level form
to this control.
 * Each index is the string name of the control on that level.
 * get path(): string[] { return []; }
 */

/**
 * Synchronous validator function composed of all the synchronous validators
 * registered with this directive.
 * get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }
 */

/**
 * Async validator function composed of all the async validators registered with this
 * directive.
 * get asyncValidator(): AsyncValidatorFn|null {
 * return composeAsyncValidators(this._rawAsyncValidators);
 * }
 */

/**
 * The `FormControl` bound to this directive.
 * get control(): FormControl { return this.form; }
 */

/**
 * Emits an `ngModelChange` event.
 * @param newValue The new value for the view model.
 */
this.update.emit(newValue);

private _isControlChanged(changes: {[key: string]: any}): boolean {
  return changes.hasOwnProperty('form');
}

 tslint: true

# Register FormGroup

The following example registers a `FormGroup` with first name and last name controls,
and listens for the *ngSubmit* event when the button is clicked.

---

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@description
* Returns the `FormGroup` bound to this directive.
 */
get control(): FormGroup {
  return this.form; }

/**
* Returns an array representing the path to this group.
*/
path(): string[]

/**
* Method that sets up the control directive in this group, re-calculates its value
* and validity, and adds the instance to the internal list of directives.
*/
addControl(dir: FormGroupName): void {
  // Implementation...
}

getControl(dir: FormControlName): FormControl

removeControl(dir: FormControlName): void

addFormGroup(dir: FormGroupName): void {
  // Implementation...
}

removeFormGroup(dir: FormGroupName): void

getFormGroup(dir: FormGroupName): FormGroup

addFormArray(dir: FormArrayName): void {
  // Implementation...
}

removeFormArray(dir: FormArrayName): void

getFormArray(dir: FormArrayName): FormArray

updateModel(dir: FormControlName, value: any): void {
  // Implementation...
}

onSubmit($event: Event): boolean

onReset(): void

resetForm(value: any = undefined): void

_updateDomValue(): void

_updateRegistrations(): void

_updateValidators(): void

_checkFormPresent(): void

Privileged methods and properties used for internal implementation details.

---

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Open Source Used In MSX Platform Services 4.0.0
numerical form allows for form arrays to be bound to indices when iterating over arrays in a `FormArray`. *

```typescript
this._asyncValidators = asyncValidators;
```
This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of reactive forms. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.

To update your code before support is removed, you'll want to decide whether to stick with reactive forms (and get/set values using reactive forms patterns) or switch over to template-driven directives. If you choose to silence this warning by providing a config for reactive forms at import time:

```ts
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModel: true})
  ]
```
ngOnChanges(changes: SimpleChanges) {
    if (!this._added) this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
        _ngModelWarning(formControlName, FormControlName,
        this, this._ngModelWarningConfig);
        this.viewModel = this.model;
        this.formDirective.updateModel(this,
        this.model);
    }
}

/**
 * @description
 * Lifecycle method called before the directive's instance is
 * destroyed. For internal use only.
 */
@ngOnDestroy(): void {
    if (this.formDirective) {
        this.formDirective.removeControl(this);
    }
}

/**
 * @description
 * Synchronous
 * validator function composed of all the async validators
 * registered with this directive.
 */
validator(): ValidatorFn|null {
    return composeValidators(this._rawValidators);
}

/**
 * @description
 * Async validator function composed of all the async validators
 * registered with this directive.
 */
asyncValidator(): AsyncValidatorFn {
    return composeAsyncValidators(this._rawAsyncValidators) !;
}

private _checkParentType(): void {
    if (!(this._parent instanceof FormGroupName) &&
        this._parent instanceof AbstractFormGroupDirective) {
        ReactiveErrors.ngModelGroupException();
    } else if (
        !(this._parent instanceof FormGroupName) && !(this._parent instanceof FormGroupDirective) &&
        !(this._parent instanceof FormArrayName)) {
        ReactiveErrors.controlParentException();
    }
}

private _setUpControl() {
    this._checkParentType();
    (this as {control: FormControl}).control =
    this.formDirective.addControl(this);
    if (this.control.disabled && this.valueAccessor !.setDisabledState) {
        this.valueAccessor !.setDisabledState !(true);
    }
    this._added = true;
}

CustomValidatorDirective implements Validator {
    validate(control: AbstractControl): ValidationErrors|null {
        return {'custom': true};
    }
}

export interface Validator {
    validate(control: AbstractControl): ValidationErrors|null;
}

export interface AsyncValidator

extends Validator {
  /**
   * @description
   * Method that performs async validation against the provided control.
   */
  @param control The control to validate against.
  *returns A promise or observable that resolves a map of validation errors
   * if validation fails, otherwise null.
  */
  validate(control: AbstractControl): Promise<ValidationErrors|null> | Observable<ValidationErrors|null> {
    // Provider which adds 'RequiredValidator' to the 'NG_VALIDATORS' multi-provider list.
    /*@export const REQUIRED_VALIDATOR: StaticProvider = {
      provide: NG_VALIDATORS,
      useExisting: forwardRef(() => RequiredValidator),
      multi: true
    }*/
    return null;
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.required(control) : null;
  }

  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }
}

/**
 * A Directive that adds the 'required' validator to any controls marked with the
 * 'required' attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list.
 */
@Directive({
  selector:
  ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl]
})
export class CheckboxRequiredValidator extends RequiredValidator {
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}

/**
 * @description
 * Provider which adds 'EmailValidator' to the 'NG_VALIDATORS' multi-provider list.
 */
@export const EMAIL_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => EmailValidator),
  multi: true
}

/**
 * A directive that adds the 'email' validator to controls marked with the
 * 'email' attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list.
 */
@Directive({
  selector:
  'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl]
}')
export class CheckboxRequiredValidator extends RequiredValidator {
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}

/**
 * A directive that adds the 'email' validator to controls marked with the
 * 'email' attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list.
 */
@Directive({
  selector:
  'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl]
}')
export class CheckboxRequiredValidator extends RequiredValidator {
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}

/**
 * A directive that adds the 'email' validator to controls marked with the
 * 'email' attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list.
 */
@Directive({
  selector:
  'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl]
}')
export class CheckboxRequiredValidator extends RequiredValidator {
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}
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[EMAIL_VALIDATOR][ngModel]@export class EmailValidator implements Validator {
  @Input()
  set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  @description
  * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null.
  *
  * @publicApi
  */
  export interface AsyncValidatorFn {
    (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
  }

  @description
  * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
  *
  * @publicApi
  */
  export const MAX_LENGTH_VALIDATOR: any = {
    provide: NG_VALIDATORS,
    useExisting: forwardRef(() => MaxLengthValidator),
    multi: true
  }
Open Source Used In MSX Platform Services 4.0.0

---

```typescript
export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value exceeds the maximum length
   * requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength != null ?
      this._validator(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.maxLength(this.maxlength);
  }
}

/**
 * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true
};

/**
 * A directive that adds regex pattern validation to controls marked with the
 * `pattern` attribute. The regex must match the entire
 * value. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * The following example shows how to add a pattern validator to an input attached to an
 * ngModel binding.
 * ```html
 * <input name="firstName" pattern="[a-zA-Z\s]*">
 * ```
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
}
```
import {FormControlName} from './directives/reactive_directives/form_control_name';
import {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
import {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
import {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [NgNoValidate, NgSelectOption, NgSelectMultipleOption, DefaultValueAccessor, NumberValueAccessor, RangeValueAccessor, CheckboxControlValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor, NgControlStatus, NgControlStatusGroup, RequiredValidator, MinLengthValidator, MaxLengthValidator, PatternValidator, CheckboxRequiredValidator, EmailValidator];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel, NgModelGroup, NgForm];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] = [FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

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 * the LICENSE file at https://angular.io/license
 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`, `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormBuilder` instance.
   *
   * @param
controlsConfig A collection of child controls. The key for each child is the name of the control.
   */

  async validators

  @see [Reactive Forms Guide](/guide/reactive-forms)
*param options Configuration options object for the `FormGroup`. The object can have two shapes:

* `AbstractControlOptions` object (preferred), which consists of:
  * `validators`: A synchronous validator function, or an array of validator functions
  * `asyncValidators`: A single async validator or array of async validator functions
  * `updateOn`: The event upon which the control should be updated (options: `change` | `blur` | `submit`)

* Legacy configuration object, which consists of:
  * `validator`: A synchronous validator function, or an array of validator functions
  * `asyncValidator`: A single async validator or array of async validator functions

`FormGroup`:

```javascript
@internal
this._reduceControls(controlsConfig): {[key: string]: any}[]
```

Let `ValidatorFn`:

```javascript
ValidatorFn: ValidatorFn[ValidatorFn][null] = null;
```

Let `asyncValidators`:

```javascript
AsyncValidatorFn[AsyncValidatorFn][null] = null;
```

Let `updateOn`:

```javascript
FormHooks[undefined = undefined][null] if (options !== null) { [null if (isAbstractControlOptions(options)) [null // options are 'AbstractControlOptions'
```

Let `validators = options.validators !== null ? options.validators : null;
```

Let `asyncValidators = options.asyncValidators !== null ? options.asyncValidators : null;
```

## Initialize a control as disabled

The following example returns a control with an initial value in a disabled state:

```javascript
ValidatorFn[ValidatorFn][null] asyncValidator?:
```

`ControlConfig`:

```javascript
+* Array{
  const controls = controlsConfig.map(c =>
  this._createControl(c));

  return new FormArray(controls, validatorOrOpts, asyncValidator);
}
```

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@publicApi

```typescript
export const VERSION = new Version('9.0.7');

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {ModuleWithProviders, NgModule} from '@angular/core';
import {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES} from './directives';

/**
 * Exports the required providers and directives for template-driven forms;
 * making them available for import by NgModules that import this module.
 * @see [Forms Guide](/guide/forms)
 */
@NgModule({
  declarations: TEMPLATE_DRIVEN_DIRECTIVES,
  providers: [RadioControlRegistry],
  exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]
})
export class FormsModule {

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 * @see [Forms](guide/reactive-forms)
 */

@NgModule({
  declarations: [REACTIVE_DRIVEN_DIRECTIVES],
  providers: [FormBuilder, RadioControlRegistry],
  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {

  /**
   * Provides options for configuring the reactive forms module.
   * * `warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel`
   * binding is used with reactive form directives.
   */
  static withConfig(opts: {
    /** @deprecated as of v6 */
    warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders<ReactiveFormsModule> {
    return {
      ngModule: ReactiveFormsModule,
      providers: [{
        provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
        useValue: opts.warnOnNgModelWithFormControl
      }]
    };
  }
}

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

export {InternalFormsSharedModule as ɵangular_packages_forms_forms_d, REACTIVE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_c, SHARED_FORM_DIRECTIVES as ɵangular_packages_forms_forms_a, TEMPLATE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_b} from './src/directives';
export {CHECKBOX_VALUE_ACCESSOR as ɵangular_packages_forms_forms_e} from './src/directives/checkbox_value_accessor';
export {DEFAULT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_f} from './src/directives/default_value_accessor';
export {AbstractControlStatus as ɵangular_packages_forms_forms_g, ngControlStatusHost as ɵangular_packages_forms_forms_h} from './src/directives/ng_control_status_host';
export {formDirectiveProvider as ɵangular_packages_forms_forms_i} from './src/directives/ng_form';
export {formArrayNameProvider as ɵangular_packages_forms_forms_u, formGroupNameProvider as ɵangular_packages_forms_forms_t} from './src/directives/reactive_directives/form_group_name';
export {SELECT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_y} from './src/directives/reactive_directives/select_value_accessor';
```

---

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from './src/directives/select_control_value_accessor';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_w} from './src/directives/select_multiple_control_value_accessor';
export {CHECKBOX_REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_ba, EMAIL_VALIDATOR as ɵangular_packages_forms_forms_bb, MAX_LENGTH_VALIDATOR as ɵangular_packages_forms_forms_bc, PATTERN_VALIDATOR as ɵangular_packages_forms_forms_be, REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_z} from './src/directives/validators';

"names": ["getDOM", "isPromise", "isObservable", "Examples", "looseIdentical", "_build
ValueString", "_extractId", "resolvedPromise", "formControlBinding", "formDirectiveProvider", "NgNoValidate", "NgSelectMultipleOption", "InternalFormsSharedModule"],"mappings":[]
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm2015/forms.js.map
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@constructor
    (mv: MethodVisitor, access: int, name: String, desc: String, signature: String, exceptions: String[]): void

Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>. Instead, they must use the
[@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 [@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 [@Type]).
@param signature
    the method's signature. May be <tt>null</tt>.
@param exceptions
    the internal names of the method's exception classes (see [@Type#getInternalName()]). May be <tt>null</tt>.
* @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
* [*GeneratorAdapter(int, MethodVisitor, int, String, String)*]
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [*Opcodes*]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [*Type* Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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

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

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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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * { @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[][], int[], String)}
 * version.
 *
 * @param typeRef
 *       a reference to the annotated type. See { @link TypeReference}.
 * @param typePath
 *       the path to the annotated type argument, wildcard bound, array
 *       element type, or static inner type within 'typeRef'. May be
 *       <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *       the fist instructions corresponding to the continuous ranges
 *       that make the scope of this local variable (inclusive).
 * @param end
 *       the last instructions corresponding to the continuous ranges
 *       that make the scope of this local variable (exclusive). This
 *       array must have the same size as the 'start' array.
 * @param index
 *       the local variable's index in each range. This array must have
 *       the same size as the 'start' array.
 * @param desc
 *       the class descriptor of the annotation class.
 */

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- /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
- /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
- /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
- /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
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- /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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 */
/**
 * Creates a new {AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see {Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {Type}).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 */
* @throws IllegalStateException
  * If a subclass calls this constructor.
  */

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jettyschemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.941 spring-cloud-starter-sleuth
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1.943 asm-commons 8.0.1

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 * Constructs a new { @link SerialVersionUIDAdder}. <i>Subclasses must not use this
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 * version.
 *
 * @param classVisitor a { @link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1092522682_1601878538.99/0/asm-commons-8-0-1-sources-
/* Constructs 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 methodVisitor 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 descriptor the method's descriptor (see {@link Type}).
* @throws IllegalStateException if a subclass calls this constructor.
*/

Found in path(s):
/.../asm-commons-8-0-1-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java

/**
* Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>. Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)} version.
* @param access access flags of the adapted method.
*/
* @param descriptor the method's descriptor (see \{@link Type\}).
* @param methodVisitor the method visitor to which this adapter delegates calls.
* @throws IllegalStateException if a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1092522682_1601878538.99/0/asm-commons-8-0-1-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java

1.944 alsa-lib 1.1.8-1

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 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
 * effective key bits) used in the authenticator.
 * <p>
 * The polynomial calculation in this implementation is adapted from the public domain <a
 * href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
 * by Andrew M (@floodyberry).
 * @see Poly1305KeyGenerator
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 * SPHINCS-256 signer.
 * <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
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* </p>
* </p>
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/**
 * Magic value for proprietary OpenSSH private key.
 **/

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* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONStreamAware.java
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* /opt/cola/permits/1142745174_1615475703.51/0/spring-cloud-stream-binder-kafka-core-3-0-6-release-sources-jar/org/springframework/cloud/stream/binder/kafka/utils/KafkaTopicUtils.java

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jar/net/jpountz/lz4/LZ4JNIUnsafeDecompressor.java
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  jar/org/springframework/instrument/InstrumentationSavingAgent.java

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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See [http://project.carrot2.org/license.html](http://project.carrot2.org/license.html).

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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at [http://www.eclipse.org/jetty/downloads.php](http://www.eclipse.org/jetty/downloads.php)

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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This software includes a binary and/or source version of data from mecab-ipadic-2.7.0-20070801

which can be obtained from


or

[http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz](http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz)

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mecab-ipadic-2.7.0-20070801 Notice

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Nori Korean Morphological Analyzer - Apache Lucene Integration
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mecab-ko-dic-2.0.3-20170922

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https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

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