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### 1.5 jaxb-api 2.3.1

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1.6 jetty-util 9.4.26.v20200117

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

------

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
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
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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

group:org.mortbay.jasper:
artifact:apache-el

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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* /opt/ws_local/PERMITS_SQL/1028331598_1591433246.64/0/spring-cloud-netflix-ribbon-2-2-0-release-sources-
1-jar/org/springframework/cloud/netflix/ribbon/ServerIntrospector.java
* /opt/ws_local/PERMITS_SQL/1028331598_1591433246.64/0/spring-cloud-netflix-ribbon-2-2-0-release-sources-
1-jar/org/springframework/cloud/netflix/ribbon/RibbonHttpResponse.java
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1-jar/org/springframework/cloud/netflix/ribbon/RibbonLoadBalancedRetryPolicy.java
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1-jar/org/springframework/cloud/netflix/ribbon/support/RibbonCommandContext.java

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1.8 libxcb 1.13.1 2

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1.11 glibc 2.24-11+deb9u4

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1.15 sensible-utils 0.0.12

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1.17 angular-bootstrap-datetimepicker 1.1.4
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1.21 is-object 3.0.1

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1.22 zlib 1.2.8.dfsg 5

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1.23 react-router 3.2.5

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1.24 json-java 20160810

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1.25 mockserver-netty 5.5.1

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1.26 jetty-plus 9.4.26.v20200117

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* javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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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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1.29 libgpg-error 1.26-2

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**1.45 xz 5.2.4 1**

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```

### 1.48 jaxen 1.1.6

#### 1.48.1 Available under license:

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 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/iter/IterableFollowingAxis.java
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* $Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo $
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAncestorAxis.java
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$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

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* $Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $ 
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 * 
 * $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultArithExpr.java

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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/jdom/XPathNamespace.java
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* $Revision: 1367 $
* $Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) $
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* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/VariableContext.java
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/util/DescendantAxisIterator.java

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$Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0jaxen-1-1-6-sources-
jar/org/jaxen/jdom/DocumentNavigator.java
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* $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/ext/LowerFunction.java
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 * $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
 */
Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources- 
    jar/org/jaxen/util/LinkedIterator.java

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* $Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $
*/

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 * $Date: 2008-12-02 17:58:10 -0800 (Tue, 02 Dec 2008) $
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* *
* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/NotFunction.java

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* $Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultPathExpr.java
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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultMinusExpr.java
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* $Revision: 1236 $
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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*
*$Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java
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 * $Header$
 * $Revision: 1179 $
 * $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/FunctionCallException.java
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* $Revision: 1248 $
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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/VariableReferenceExpr.java
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* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
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Jar/org/jaxen/expr/DefaultNumberExpr.java
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$Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo $
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$Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $

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$Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo$

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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* *
* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/expr/DefaultExpr.java
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* $Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/LocationPathPattern.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 * $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo$
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 * $Revision: 1257 $
 * $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/dom/DocumentNavigator.java

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 * $Revision: 1300 $
 * $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/PathExpr.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/util/AncestorAxisIterator.java
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 * $Header$
 * $Revision: 1159 $
 * $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/UnresolvableException.java

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* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $

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  * $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
  */

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  jar/org/jaxen/function/ext/UpperFunction.java
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $
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$Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
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 * $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
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  */opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/ConcatFunction.java
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* $Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $ 
* /

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  jar/org/jaxen/expr/DefaultUnionExpr.java  
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java
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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* jar/org/jaxen/expr/DefaultUnaryExpr.java

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* $Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/CommentNodeStep.java

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* $Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/TextNodeStep.java
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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelativeLocationPath.java

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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
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  jar/org/jaxen/util/SelfAxisIterator.java
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$Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableParentAxis.java
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$Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $

/
jar/org/jaxen/jdom/JDOMXPath.java

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 * $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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*$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/xslt/DocumentFunction.java

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* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
*/

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  /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
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 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/Operator.java

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultBinaryExpr.java
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/*
$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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 * $Header$
 * $Revision: 1222 $
 * $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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$Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo $

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$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
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$Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $

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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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$Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultLocationPath.java
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 * $Header$
 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/SAXPathException.java
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 * $Revision: 1251 $
 * $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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  $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
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$Id: Function.java 1128 2006-02-05 21:49:04Z elharo$

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$Id: Function.java 1128 2006-02-05 21:49:04Z elharo$

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  $Revision: 1370 $
  $Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) $
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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  * jar/org/jaxen/dom/NamespaceNode.java
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NodeComparator.java
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jar/org/jaxen/expr/PredicateSet.java
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* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
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jar/org/jaxen/function/FalseFunction.java

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$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: DefaultAbsoluteLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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$Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $

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* *
* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/util/StackedIterator.java
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 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/XPathSyntaxException.java
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 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java
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  *
  * $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java

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* $Revision: 1253 $
* $Date: 2006-11-09 08:39:19 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/SingletonList.java
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 * $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $ *

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/StringLengthFunction.java

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$Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathReader.java

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* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $ *
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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
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* 
* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

Found in path(s):
/ /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/SubstringAfterFunction.java
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* $Revision: 1156 $
* $Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) $
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  * $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources- jar/org/jaxen/xom/DocumentNavigator.java

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$Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
* $Revision: 1334 $  
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $  
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*  
* $Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $  
*/

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 * $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/NamespaceUriFunction.java
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 * $Revision: 1228 $
 * $Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/UnionExpr.java

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* $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LocaleFunctionSupport.java

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* $Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Header$
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* $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Revision: 1226 $
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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
*/

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 * $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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*$Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo$
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* $Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* *
* $Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/UnionPattern.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $

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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/PatternHandler.java

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 * $Header$
 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLessThanExpr.java
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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/util/SingleObjectIterator.java

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* $Revision: 1132 $
* $Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) $
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$Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $

Found in path(s):

$Header$
$Revision: 1225 $
$Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $

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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/AllNodeStep.java

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 * $Revision: 1252 $
 * $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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$Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $

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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Header$
 * $Revision: 1321 $
 * $Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) $
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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
*/

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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $
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* $Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $  
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 * $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $ */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/function/TrueFunction.java

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/*
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 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java

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$Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/SumFunction.java

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 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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$Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $

Found in path(s):
/.../jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanExpr.java

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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/StringFunction.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/dom4j/Dom4jXPath.java
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 * $Header$
 * $Revision: 1160 $
 * $Date: 2006-06-03 13:26:02 -0700 (Sat, 03 Jun 2006) $
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$Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/UnsupportedAxisException.java

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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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$Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $

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$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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$Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $

Found in path(s):
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/pattern/AnyChildNodeTest.java
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* $Header$
* $Revision: 1235 $
* $Date: 2006-11-08 09:02:21 -0800 (Wed, 08 Nov 2006) $
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* *
* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/LocationPath.java
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $ 
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.java
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 * Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo */
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 * $Header$
 * $Revision: 1171 $
 * $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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 * $Header$
 * $Revision: 1335 $
 * $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.java

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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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 * $Header$
 * $Revision: 1193 $
 * $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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$Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $

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/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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$Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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/ /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/expr/iter/IterableSelfAxis.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.java

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$Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPredicate.java
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*$Revision: 1128$
*$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/LastFunction.java
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 * $Revision: 1237 $
 * $Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NumberExpr.java
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  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultDivExpr.java
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* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  */opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/SubstringBeforeFunction.java
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*$Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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jar/org/jaxen/saxpath/XPathHandler.java

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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) $
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* $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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* $Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) $
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* $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $
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 *
 * $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NameTest.java
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 * $Header$
 * $Revision: 1168 $
 * $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.java
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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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$Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultNotEqualsExpr.java

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 * $Header$
 * $Revision: 1241 $
 * $Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) $
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/Predicated.java

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 * $Header$
 * $Revision: 1334 $
 * $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/saxpath/base/XPathLexer.java

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Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultMultiplyExpr.java

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Found in path(s):
/ /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Expr.java

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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/config/Jaxb2MarshallerBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/Marshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/Unmarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/support/SaxResourceUtils.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/GenericUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/GenericMarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/mime/MimeContainer.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/UncategorizedMappingException.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/MarshallingFailureException.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/GenericUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/GenericMarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/mime/MimeContainer.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
  jar/org/springframework/oxm/UncategorizedMappingException.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/mime/MimeUnmarshaller.java

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* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/system/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/web/servlet/AbstractWebMvcEndpointHandlerMapping.java

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* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/invoke/reflect/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/web/ExposableServletEndpoint.java
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* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/web/trace/http/TraceableRequest.java

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1.70 jetty-servlet 9.4.26.v20200117

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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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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

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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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1.94 libsemanage 2.6-2

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* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/support/JacksonPresent.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/core/KafkaResourceHolder.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/listener/ConsumerAwareMessageListener.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/listener/ConsumerAwareRebalanceListener.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/listener/SeekToCurrentBatchErrorHandler.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/listener/SeekToCurrentErrorHandler.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/listener/DelegatingMessageListener.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/listener/ListenerType.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/annotation/KafkaStreamsDefaultConfiguration.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/event/NonResponsiveConsumerEvent.java
* /opt/ws.local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-

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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/ConsumerFailedToStartEvent.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/converter/BytesJsonMessageConverter.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/LogIfLevelEnabled.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/adapter/ReplyHeadersConfigurer.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/DeserializationException.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/SimpleKafkaHeaderMapper.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/Requestreply/CorrelationKey.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/KafkaListenerEndpoint.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/adapter/RecordMessagingMessageListenerAdapter.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/annotation/KafkaListenerConfigurer.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/ProducerFactoryUtils.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/annotation/KafkaBootstrapConfiguration.java

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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/annotation/KafkaListenerAnnotationBeanPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/ConcurrentKafkaListenerContainerFactory.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/KafkaListenerEndpointRegistrar.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/AbstractKafkaListenerContainerFactory.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/KafkaListenerEndpointRegistry.java

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Item.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/IntInsnNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/ClassWriter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/ASMifier.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/FrameNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/signature/Sig}natureVisitor.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/LocalVariableNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/FieldWriter.java
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*/
/**
 * Creates a new (@link AnalyzerAdapter). <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * (@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor))
 * version.
 *
 * @param owner
 *           the owner's class name.
 * @param access
 *           the method's access flags (see (@link Opcodes)).
 * @param name
 *           the method's name.
 * @param desc
 *           the method's descriptor (see (@link Type Type)).
 * @param mv
 *           the method visitor to which this adapter delegates calls. May
 *           be <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
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  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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  jar/org/objectweb/asm/xml/SAXAdapter.java
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  jar/org/objectweb/asm/xml/Processor.java
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/**
 * Constructs a new { @link LocalVariableAnnotationNode }. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * { @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 * 
 * @param typeRef
 * a reference to the annotated type. See { @link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

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* Constructs a new [Textifier](https://example.com). <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [Textifier(int)]
* version.
* @throws IllegalStateException
*           If a subclass calls this constructor.
*/

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/optimizer/shrink-writer.properties
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  jar/org/objectweb/asm/util/ASMifiable.java
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  jar/org/objectweb/asm/util/Textifiable.java
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  jar/org/objectweb/asm/TypePath.java
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  jar/org/objectweb/asm/TypeReference.java

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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)
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*
* @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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/**
 * 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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1.103 parseqs 0.0.5

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1.104 spring-cloud-stream-binder-kafka 3.0.0

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1.106 byte-buddy-dep 1.8.22

1.107 angular-breadcrumb 0.4.1

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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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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
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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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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1.125 avahi 0.7-4+b1
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1.137 libx11 1.6.7 1

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1.139 spring-plugin-core 1.2.0

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1.140 jetty-xml 9.4.26.v20200117

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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

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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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Assorted

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1.142 lsb 10.2019051400

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1.143 commons-compress 1.19

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1.144 reactor-core 3.3.2

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DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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<script src="templates/header.js" type="text/javascript"></script>
<div id="left">
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<script src="templates/right.js" type="text/javascript"></script>
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1.161 has-cors 1.1.0

1.162 feign-form-spring 3.8.0

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1.172 tar 1.29b 1.1

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Version 2, June 1991

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That's all there is to it!
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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@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
  + trivial database library - standalone version

- trivial database library - private includes

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This 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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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.174 objectweb-asm 7.1
1.175 swagger 1.5.20

1.176 rxjava 1.3.8

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/SpscExactAtomicArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleFromObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ObserverSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/observers/AssertableSubscriberObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ActionSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaSingleExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleFromCallable.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaCompletableExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/AsyncCompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaCompletableExecutionHook.java
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jar/rx/observables/GroupedObservable.java
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jar/rxinternal/operators/CompletableOnSubscribeConcatArray.java
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jar/rxinternal/operators/Observer.java
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jar/rxinternal/operators/OperatorTake.java
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jar/rxinternal/operators/OperatorTakeLast.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rxfunctions/Func4.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rxfunctions/Func7.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rxfunctions/Func0.java
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 * Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/atomic/SpscUnboundedAtomicArrayQueue.java

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=====

This package “rx.internal.operators” is for internal implementation details and can change at any time.

It is excluded from the public Javadocs (http://netflix.github.io/RxJava/javadoc/) and should not be relied upon by
any code.

In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

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jar/rx/CompletableEmitter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableFromEmitter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/CompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleEmitter.java

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Single.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFlatMapSingle.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/SuppressAnimalSniffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeConcatMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeReduce.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribePublishMulticast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTakeLastOne.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTakeLastOne.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeReduceSeed.java
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jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoAfterTerminate.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureLatest.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSampleWithDuration.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BackpressureUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/ProducerArbiter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/SingleDelayedProducer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/producers/QueuedValueProducer.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 externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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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:
*/

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* `/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaSchedulersHook.java`
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core/src/main/java/org/jctools/queues/SpmcArrayQueue.java

*/

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/SpmcArrayQueue.java

1.177 aop-alliance 1.0

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1.178 spring-boot-configuration-processor 2.2.4

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* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/MetadataGenerationEnvironment.java
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1.179 delight-nashorn-sandbox 0.1.26
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1.181 libseccomp 2.3.3-4

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1.184 alsa-lib 1.1.8 1

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1.187 grep 3.3 1

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/AnnotatedNumberMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/StatsTimer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/RegexMetricFilter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/MonitoredThreadPool.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/DefaultPublishingPolicy.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/AnnotatedStringMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/Monitors.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/BasicCompositeMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/BasicTimer.java

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/ContextualCounter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/TagComparator.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/util/ManualClock.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/MonitorRegistry.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/Monitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/JmxConnector.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/MetricPoller.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/MaxGauge.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/MinGauge.java

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 * <p/>
 * Interfaces for collecting metrics and publishing them to observers.
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* <p/>
* Primary interfaces for metrics.
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* Primary interfaces for metrics.
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/package-info.java

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* <p/>
* Subinterfaces and implementations for { @link com.netflix.servo.monitor.Monitor}.
* <p/>
* Subinterfaces and implementations for { @link com.netflix.servo.monitor.Monitor}.
* <p/>
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/package-info.java
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 * \<p/>
 * Annotations to easily expose metrics from a class.
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 * Annotations to easily expose metrics from a class.
 */

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/annotations/package-info.java

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/util/Iterables.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/DoubleCounter.java

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/util/Throwables.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/FileMetricObserver.java
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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/Pollers.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/PeakRateCounter.java

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* <p/>
* Monitor registry and helper classes to expose monitored attributes to
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* JMX.
* */

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 * <p/>
 * Code related to Tagging objects with metadata.
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 * */

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/package-info.java
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tools/shhopt.c, tools/shhopt.h:
Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu/pub/Linux/libs
shhopt-1.1.2.tar.gz
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1.211 spring-beans 5.2.3

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1.222 des.js 1.0.1

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774479_1591200443.92/0/des-js-1-0-1-4-tgz/package/README.md

1.223 libffi 3.2.1 9

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5.9.0

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Zstd-jni: JNI bindings to Zstd Library

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1.228 angular-platform-browser 9.0.7

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1.231 init-system-helpers 1.56+nmu1

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1.235 iconv-lite 0.4.24

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1.236 browserify-aes 1.2.0

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1.237 zstd-jni 1.4.0 1

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Zstd-jni: JNI bindings to Zstd Library

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1.238 junit 4.7

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1.239 sysv-init 2.93 8

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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

------
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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Assorted

The UnixCrypt.java code implements the one way cryptography used by
1.244 zipkin-reporter-metrics-micrometer
2.11.0
1.244.1 Available under license:

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1.245 opensaml-java 2.6.6

1.246 systemd 241-7~deb10u3

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_
#endif

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN 0x0001
#define POLLHUP 0x0002
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLNVAL 0x0010
#define POLL.Controller 0x0020
#define POLL.HUP 0x0040
#define POLL.EOL 0x0080
#define POLL.INTERFACE 0x0100
#define POLL.OWNER 0x0200
#define POLL.RESOURCE 0x0400
#define POLL.STRUCT 0x0800
#define POLL.TIME 0x1000
#define POLL.UITL 0x2000

#define POLLIN0x0001
#define POLLHUP0x0002
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLNVAL0x0010
#define POLL.Controller0x0020
#define POLL.HUP0x0040
#define POLL.EOL0x0080
#define POLL.INTERFACE0x0100
#define POLL.OWNER0x0200
#define POLL.RESOURCE0x0400
#define POLL.STRUCT0x0800
#define POLL.TIME0x1000
#define POLL.UITL0x2000

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#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

int poll(struct pollfd*, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
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 *
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#endif
#endif
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
*/
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)((int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!((W_IF(WIFEXITED(w)) & 0377))
#define WIFSTOPPED(w)((W_IF(WIFEXITED(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w)
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)((W_IF(WIFEXITED(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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   *
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   *
   * @author Vincent Rijmen <vincent rijmen@esat kuleuven ac be>
   * @author Antoon Bosselaers <antoon bosselaers@esat kuleuven ac be>
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```
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int setresgid(gid_t, gid_t, gid_t);
#endif

#define HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.255 jquery-ui-dist 1.12.1

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1.256 spring-security-web 5.2.1

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1.258 spring-beans 3.2.17

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1.259 diffutils 3.7 3

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1.272 byte-buddy-agent 1.10.6

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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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# Jackson JSON processor

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### 1.290 base64-js 1.3.1

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<signature of Ty Coon>, 1 April 1989
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

# perl

=head1 NAME

copyright.t
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the `perl -v` output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the `--now` option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file

open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\d{4,}/s
  or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\n    Module-Build mailing list at <module-build@perl.org>.",
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  repository: http://github.com/dagolden/module-build/
  version: 3
1.304 apache-httpclient 4.5.6

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If you develop a new program, and you want it to be of the greatest possible use to humanity, 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 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

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"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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How to Apply These Terms to Your New Libraries

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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### 1.313 moment-timezone 0.5.26

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1.318 fileapi 2.0.27

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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<H2 CLASS="title"><A NAME="INTRO">Introduction</A></H2>

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<H2 CLASS="title"><A NAME="KERBEROS">Kerberos Support Code</A></H2>

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```
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```

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1.352 xorg 7.7+19

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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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

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see [http://www.opensource.org](http://www.opensource.org) for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2.2.4

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1.373 safe-buffer 5.1.2

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1.374 jackson-module-parameter-names

2.10.2

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## jopt-simple v4.6

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce “uncompressed GIFs”. This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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1.386 arraybuffer.slice 0.0.6

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```
# How to
```
```
```javascript
var sliceBuffer = require('arraybuffer.slice');
var ab = (new Int8Array(5)).buffer;
var sliced = sliceBuffer(ab, 1, 3);
sliced = sliceBuffer(ab, 1);
``` ```

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.404 netty-codec-http 4.1.32

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1.407 spring-cloud-stream-binder-kafka-core

3.0.0

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1.409 mockserver-client-java 5.5.1

1.410 debug 2.6.9
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1.412 selinux 2.8-1+b1

1.412.1 Available under license:

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver
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for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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

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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
    || strcmp(license, "GPL v2") == 0
    || strcmp(license, "GPL and additional rights") == 0
    || strcmp(license, "Dual BSD/GPL") == 0
    || strcmp(license, "Dual MIT/GPL") == 0
    || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif

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Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStrAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU; and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/reactive/server/ApplicationContextSpec.java
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/SmartContextLoader.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/reactive/server/XpathAssertions.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/annotation/IfProfileValue.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/event/AfterTestClassEvent.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/result/XpathResultMatchers.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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#perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright \d{4,}/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
---
abstract: 'Build and install Perl modules'
author:
    - 'Ken Williams <kwilliams@cpan.org>'
    - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
    File::Temp: 0.15
    Test::Harness: 3.16
    Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
    url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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# Ion.Range Slider 2.0.13

> English description | <a href="readme.ru.md"> </a> 

Easy, flexible and responsive range slider
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/en.html">Project page and demos</a>
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/ion.rangeSlider-2.0.13.zip">Download ion.rangeSlider-2.0.13.zip</a>

***

## Description
* Ion.RangeSlider — cool, comfortable, responsive and easily customizable range slider
* Supports events and public methods, has flexible settings, can be completely altered with CSS
* Cross-browser: Google Chrome, Mozilla Firefox 3.6+, Opera 12+, Safari 5+, Internet Explorer 8+
* Ion.RangeSlider supports touch-devices (iPhone, iPad, Nexus, etc.).
* With this plugin you will be able to build beautiful range sliders, like this:

![ion.rangeSlider](http://ionden.com/a/plugins/ion.rangeSlider/static/img/ion-range-slider.png)

## Key features
* Skin support. (5 skins included and PSD for skin creation)
* Any number of sliders at one page without conflicts and big performance problems
* Two slider types single (1 slider) and double (2 sliders)
* Support of negative and fractional values
* Ability to set custom step and snap grid to step
* Support of custom values diapason
* Customisable grid of values
* Ability to disable UI elements (min and max, current value, grid)
* Postfixes and prefixes for your numbers ($20, 20 &euro; etc.)
* Additional postfix for maximum value (eg. $0 — $100<br>$<br>)
* Ability to prettify large numbers (eg. 10000000 -> 10 000 000 or 10.000.000)
* Slider writes its value right into input value field. This makes it easy to use in any html form
* Any slider value can be set through input data-attribute (eg. data-min="10")
* Slider supports disable param. You can set it true to make slider inactive
* Slider supports external methods (update, reset and remove) to control it after creation
* For advanced users slider has callbacks (onStart, onChange, onFinish, onUpdate). Slider pastes all its params to callback first argument as object
* Slider supports date and time

## Demos

* <a href="http://ionden.com/a/plugins/ion.rangeSlider/demo.html" class="switch__item">Basic demo</a>
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/demo_advanced.html" class="switch__item">Advanced demo</a>
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/demo_interactions.html" class="switch__item">Interactions demo</a>

## GitHub

* <a href="https://github.com/IonDen/ion.rangeSlider">GitHub page</a>

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/*! normalize.css v3.0.2 | MIT License | git.io/normalize */

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1.445 python-cffi 1.9.1-2

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1.446 debianutils 4.8.1.1

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1.447 lz4 1.8.3-1

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1.450 j2objc-annotations 1.1

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

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

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

*  *
* cvt - IEEE floating point formatting routines.
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indentation:4

created on: 2005jan16
created by: Markus W. Scherer

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Reversible is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Reversible API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".
Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement [Replaceable] in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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@page
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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.454 latencyutils 2.0.3

1.454.1 Available under license:

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Found in path(s):

1.456 history 3.3.0
1.456.1 Available under license:
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1.465 nanojson 1.2

1.466 base-files 10.3+deb10u3
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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
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
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.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.
Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

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same work.

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.471 spring-context 5.2.3

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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/GsonHttpMessageConvertersConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/JmsPoolConnectionFactoryFactory.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/ReactiveWebServerFactoryCustomizer.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/GsonHttpMessageConvertersConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/GsonBuilderCustomizer.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/batch/JobExecutionEvent.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/AutoConfigurationImportFilter.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/HTTPMessageConvertersConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/reactive/ReactiveOAuth2ResourceServerJwk
Configuration.java

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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources.jar/org/springframework/boot/autoconfigure/validation/PrimaryDefaultValidatorPostProcessor.java
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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources.jar/org/springframework/boot/autoconfigure/JdbcRepositoriesRegistrar.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources.jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources.jar/org/springframework/boot/autoconfigure/security/oauth2/client/oauth2/ClientAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources.jar/org/springframework/boot/autoconfigure/webservices/WebServicesAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources.jar/org/springframework/boot/autoconfigure/mongo/MongoClientSettingsBuilderCustomizer.java
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1.477 libjpeg-turbo 1.5.2-2+b1
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and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
======================

This file contains the following sections:
OVERVIEW
========
This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

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REFERENCES   Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc   How to configure and install the IJG software.
usage.doc     Usage instructions for cjpegsd, djpeg, jpegtran,
               rdjpgcom, and wrjpcom.
*.1           Unix-style man pages for programs (same info as usage.doc).
wizard.doc    Advanced usage instructions for JPEG wizards only.
change.log    Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc   How to use the JPEG library in your own programs.
example.c     Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc  Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========
This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still Images, Part 2: Compliance testing" and has document

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJK does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJK's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.478 openssl 1.0.2u-1~deb9u1
1.478.1 Available under license:

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1.481 ganymed-ssh2 Build262

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1.491 mapstruct 1.2.0

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@smallexample
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@c ispell-local-pdict: "ispell-dict"
@c End:
1.493 jersey-client 1.19.1

1.494 guava 25.1

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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
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<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
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<script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
        URL_ROOT:    '../',
        VERSION:     '1.17',
        COLLAPSE_INDEX: false,
        FILE_SUFFIX: '.html',
    }
</script>
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```
<code class="docutils literal"><span class="pre">src/lib/gssapi</span></code>
```

including the following files:
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1. `generic/gssapi_err_generic()`  
   `et/generic/gssapi`  
   `et/lib/gssapi/mechglue/g_accept_sec_context()`  
   `et/lib/gssapi/mechglue/g_acquire_cred()`  
   `et/lib/gssapi/mechglue/g_canon_name()`  
   `et/lib/gssapi/mechglue/g_compare_name()`  
   `et/lib/gssapi/mechglue/g_context_time()`  
   `et/lib/gssapi/mechglue/g_delete_sec_context()`  
   `et/lib/gssapi/mechglue/g_dsp_name()`  
   `et/lib/gssapi/mechglue/g_dsp_status()`  
   `et/lib/gssapi/mechglue/g_dup_name()`  
   `et/lib/gssapi/mechglue/g_exp_sec_context()`  
   `et/lib/gssapi/mechglue/g_export_name()`  
   `et/lib/gssapi/mechglue/g_glue()`  
   `et/lib/gssapi/mechglue/g_imp_name()`  
   `et/lib/gssapi/mechglue/g_imp_sec_context()`  
   `et/lib/gssapi/mechglue/g_init_sec_context()`
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.c`
- `kprop/kprop.c`
- `kprop/kproplog.c`

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.. parsed-literal::

    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_dup_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
and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   kprop/kpropd_rpc.c
   kprop/kproplog.c

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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
  URL_ROOT:  '../',
  VERSION:  '1.17',
  COLLAPSE_INDEX: false,
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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
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lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_process_context.c
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lib/gssapi/mechglue/g_rel_cred.c
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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/gsssd_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

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
# DB2 licenses start with '/*-.' and we don't want to change them.
if line != "" and line != '-.:
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c; in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^[^ ]*[^ ]? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

    for fname in sys.argv[1:]:
if fname.startswith('./'):
    fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)

1.496 ribbon 2.3.0

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1.498 lombok 1.18.12

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1.499 javax-annotation-api 1.3.2

1.500 animal-sniffer-annotation 1.14

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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

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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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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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* /opt/ws_local/PERMITS_SQL/1018365088_1591903911.65/0/jnr-constants-0-9-9-sources-jar/com/kenai/constantine/Constant.java
* /opt/ws_local/PERMITS_SQL/1018365088_1591903911.65/0/jnr-constants-0-9-9-sources-jar/jnr/constants/Constant.java
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1.510 mime-support 3.60

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1.511 spring-framework 5.2.3

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1.512 spring-boot-starter-freemarker 2.2.4

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* /opt/ws_local/PERMITS_SQL/1033212717_1590038536.8/0/spring-boot-starter-freemarker-2-2-4-release
1.513 json-java 2.4
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1.514 has-binary 0.1.7

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1.515 instrumentation-jms 5.9.0

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/converter/MessageConversionException.java

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/support/InterceptableChannel.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/annotation/support/MessageHandlerMethodFactory.java

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/spring-messaging-5-2-3-release-sources.jar/springframework/messaging/handler/annotation/reactive/AbstractNamedValueMethodArgumentResolver.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/converter/MarshallingMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/simp/SimpMessageHeaderAccessor.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/core/GenericMessagingTemplate.java

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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * [ @link java.util.concurrent.ThreadPoolExecutor queueCapacity ] is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in [ @link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor ] for
 * more details.
 * By default this is set to [ Integer.MAX_VALUE ].
 */

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/annotation/Headers.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774556_1590612060.18/0/vdom-virtualize-2-0-0-1-tgz/package/index.js

1.538 create-react-class 15.6.3

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1.540 spring-aop 5.2.3

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1.548 has-binary2 1.0.3

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all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)

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Theodore Ts'o
23-June-2007

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

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

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under the terms of Sections 1 and 2 above provided that you accompany
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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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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However, linking a "work that uses the Library" with the Library
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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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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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That's all there is to it!
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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Gadi Oxman, August 1995

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
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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* javax.servlet:javax.servlet-api
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* 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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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-el-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala  1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPGNiklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPGRmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/enctr-data.c, g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH  2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz  2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson  2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode, CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte  2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPTThe Written Word  2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards  2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)
LIBGCRYPT   Hye-Shik Chang   2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT   Werner Dittmann  2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG        David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT   Andrey Jivsov    2010-12-09
Assigns Past and Future Changes
openppg@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT   Ulrich Müller    2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT   Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO
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Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

The files cipher/rndunix.c and cipher/rndw32.c are based on those.

The ECC code cipher ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been been taken from the original NTT provided GPL source.

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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
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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/*

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

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1.564 systemd 241-7~deb10u4

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1.565 angular-messages 1.7.9

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compiler/cpp/src/generate/t_ocaml_generator.cc
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compiler/cpp/src/generate/t_st_generator.cc
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compiler/cpp/src/parser/t_field.h
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lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
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lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
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lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
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1.578 slf4j-log4j 1.7.5

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1.579 core-module 1.2.3

1.580 spring-retry 1.2.5

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1.581 diffie-hellman 5.0.3

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1.582 util-linux 2.29.2-1+deb9u1

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src/arc4random_unix.h
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src/getentropy_bsd.c
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* 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

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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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.594 zstd 1.4.0-1

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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

------
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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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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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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Assorted

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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

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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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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Assorted

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jar/reactor/function/Predicate3.java

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1.640 hash.js 1.1.7

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```
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Just a bike-shed.

```sh
top
npm install hash.js
top```

```sh
top
```

Just a bike-shed.

## Install

```
```sh
top	npm install hash.js
top```

## Usage

```
```js
top
var hash = require('hash.js')
hash.sha256().update('abc').digest('hex')
top```

## Selective hash usage

```
```js
top
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
top```

```sh
top
```

## Selective hash usage

```
```js
top
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
top```

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**1.641 hibernate-validator 6.0.18**

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1.643 jetty-webapp 9.4.26.v20200117

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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 GPLv2 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

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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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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. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.644 commons-http-client 3.1

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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

------

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

-----

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

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1.650 lsb 9.20161125

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1.652 python-defaults 2.7.13 2
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

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

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

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

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2.6.4  2.6.3  2009  PSF  yes
2.6.5  2.6.4  2010  PSF  yes

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1.673 jul-to-slf4j 1.7.30
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  FILE_SUFIX: '.html',
  HAS_SOURCE: true,
  SOURCELINK_SUFFIX: '.txt'
};
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.. parsed-literal::

    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
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    kprop/kpropd_rpc.c
    kprop/kproplog.c

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment 
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/**-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
ln = 0
if '^-* mode: c:' in lines[ln]:
    ln += 1

# Check filename comment if present.
m = re.match(r'^\* ([^ ]*)(- .*)? \*/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'^\*.*\*/', '', line)
        line = line.strip()
    if not in_comment and '/\*' in line:
        line, sep, comment_part = line.partition('/\*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                               code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
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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
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
<br class="docutils"/>

```
lib/src/lib/gssapi/gssapi_err_generic.c
```

```
lib/src/lib/gssapi/mechglue/g_accept_sec_context.c
```

```
lib/src/lib/gssapi/mechglue/g_acquire_cred.c
```

```
lib/src/lib/gssapi/mechglue/g_canon_name.c
```

```
lib/src/lib/gssapi/mechglue/g_compare_name.c
```

```
lib/src/lib/gssapi/mechglue/g_context_time.c
```

```
lib/src/lib/gssapi/mechglue/g_delete_sec_context.c
```

```
lib/src/lib/gssapi/mechglue/g_dsp_name.c
```

```
lib/src/lib/gssapi/mechglue/g_dsp_status.c
```
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_dup_name.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_exp_sec_context.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_export_name.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_glue.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_imp_name.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_imp_sec_context.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_init_sec_context.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_initialize.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_inquire_context.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_inquire_cred.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_inquire_names.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_process_context.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_rel_buffer.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_rel_cred.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_rel_name.c
<span class="n">lib</span>/<span class="n">gssapi</span>/class/mechglue/class/g_rel_oid_set.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
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1.690 angular-nvd3 1.0.9

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1.691 jetty 9.4.26.v20200117

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Eclipse

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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

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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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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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Assorted

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import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";
}

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Eclipse

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

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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
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

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

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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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Assorted

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1.707 fontconfig 2.13.1 2

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1.708 spring-cloud-consul-discovery 2.2.0

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1.709 apache-xml-rpc-common-library 3.1.2

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1.711 apache-el 8.5.49

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1.725 alsa 1.1.3 5

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1.727 python 2.7.13 2+deb9u3

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

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

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

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*******************
History and License
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History of the software
========================

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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+----------------+--------------+-----------+------------+-----------------+
| Release        | Derived from | Year      | Owner      | GPL compatible? |
+================+==============+===========+============+=================+
| 0.9.0 thru 1.2 | n/a          | 1991-1995 | CWI        | yes             |
+----------------+--------------+-----------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
+----------------+--------------+-----------+------------+-----------------+
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
+----------------+--------------+-----------+------------+-----------------+
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
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| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
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| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes             |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes             |
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| 2.1.2          | 2.1.1        | 2002      | PSF        | yes             |
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| 2.1.3          | 2.1.2        | 2002      | PSF        | yes             |
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Mersenne Twister

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Floating point exception control
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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test_epoll
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Select kqueue
-------------

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strtod and dtoa
--------------
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-------

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expat
------

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libffi
------

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zlib
----

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1.728 ca-certificates-java 20190405

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### 1.729 angular-forms 9.0.7

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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
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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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{"version":3,"file":"forms.js","sources":[]}"../..../..../..../packages/forms/src/directives/control_value_accessor.ts"
**registerOnTouched(fn: any): void;**

```ts
/**
 * @description
 * Function that is called by the forms API when
 * ```
 *
 * @param fn The callback function to register
 * ```
 *
 * your class should call the registered function to allow
 * the forms API to update itself:
 *
 * ```ts
 * host:
 * registerOnTouched(fn: any): void {
 *   this._onTouched = fn;
 * }
 * ```
 *
 * On blur (or equivalent),
 * The following example stores the provided function as an internal method.
 *
 * ```ts
 * *
 * function so your class calls it at the appropriate time.
 * **registers a method called by the forms API to update the form model when values propagate from the view to the model.
 * **When implementing the `registerOnChange` method in your own value accessor, save the given
 * **the example writes a value to the native DOM element.
 * **The new value for the element
 * ```
 *
 * This method is called by the forms API to write to the view when programmatic
 * changes from model to view are requested.
 * **writes a value to the native DOM element.
 * **value accessor, save the given
 * **The new value for the element
 * ```
 *
 * This method is called by the forms API to update the form model when values propagate from the view to the model.
 * **When implementing the `registerOnChange` method in your own value accessor, save the given
 * **the example writes a value to the native DOM element.
 * **value accessor, save the given
 * **the example writes a value to the native DOM element.
 * **the example writes a value to the native DOM element.
 * **When implementing the `writeValue` method in your own value accessor, save the given

```
the control status changes to "DISABLED". Depending on the status, it enables or disables the appropriate DOM element.

The following is an example of writing the disabled property to a native DOM element:

```ts
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
```

The disabled status is set to the element's "disabled" property.

```ts
void(DefaultValueAccessors: TemplateRef<void> * this._renderer.setElementProperty(this._elementRef.nativeElement, 'disabled', isDisabled));
```

This example is taken from `DefaultValueAccessors` for writing a value and listening to changes on a checkbox input.

```ts
function isChecked(): boolean {
  return this._renderer.getProperty(this._elementRef.nativeElement, 'checked');
}
```

`isChecked()` is a function that returns the checked property of the input element.

```ts
this.writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}
```

`writeValue()` sets the "checked" property on the input element.

```ts
this.registerOnChange(fn: (_: any) => {}): void {
  this.writeValue = fn;
}
```

`registerOnChange()` registers a function called when the control value changes.

```ts
this.registerOnTouched(fn: () => {}): void {
  this.writeValue = fn;
}
```

`registerOnTouched()` registers a function called when the control is touched.

```ts
this.setDisabledState(isDisabled: boolean): void {
  this.writeValue(false);
}
```

`setDisabledState()` sets the "disabled" property on the input element.

```ts
this.writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}
```

`writeValue()` sets the "checked" property on the input element.

```ts
function isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
  return /android (\d+)/.test(userAgent.toLowerCase());
}
```

`isAndroid()` checks whether the agent is Android.

```ts
function injectEvent(ifElement: Element, fn: () => boolean, elementName: string, event: string, inject: boolean) {
  return fn();
}
```

`injectEvent()` injects an event into an element.

```ts
export const DEFAULT_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('DefaultValueAccessors');
```

`DEFAULT_VALUE_ACCESSOR` is used to provide a `ControlValueAccessor` for form controls.

```ts
export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessors');
```

`NG_VALUE_ACCESSOR` is used to provide a `ControlValueAccessor` for form controls.

```ts
export const CHECKBOX_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => CheckboxControlValueAccessor),
  multi: true,
};
```

`CHECKBOX_VALUE_ACCESSOR` is used to provide a `ControlValueAccessor` for form controls.
how to use an input element that activates the default value accessor

```ts
const firstNameControl = new FormControl();
```

```ts
<input type="text" [formControl]="firstNameControl">
```
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.
*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. If the control is not present, null is returned.
*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
* 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[]|null { return null; }*/
* @description
* Returns an array of string control names, e.g. `['address', 'street']`
* If no path is given, this method checks for the error on the current control.
*get valueChanges(): Observable<any>|null { return this.control ? this.control.valueChanges : null; }*/
* @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(): Observable<any>|null { return this.control ? this.control.statusChanges : null; }*/
* @description
* Returns a multicasting observable of value changes for the control that emits the
* value of the control changes in the UI or programmatically.
*get status(): string|null { return this.control ? this.control.status : null; }*/
* @description
* Returns the validation status of the control. Possible values include:
* 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
*get touched(): boolean|null { return this.control ? this.control.touched : null; }*/
* @description
* Returns whether the control is touched, meaning that the user has triggered
* a 'blur' event on it. If the control is not present, null is returned.
*get pristine(): boolean|null { return this.control ? this.control.pristine : null; }*/
* @description
* 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.
*get dirty(): boolean|null { return this.control ? this.control.dirty : null; }*/
* @description
* 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.
*get enabled(): boolean|null { return this.control ? this.control.enabled : null; }*/
* @description
* Reports whether the control is enabled, meaning that the control is included in ancestor
* calculations of validity or value. 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 pristine, meaning that the user has not yet 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
* Returns whether the control is touched, meaning that the user has triggered
* a 'blur' event on it. If the control is not present, null is returned.
*get untouched(): boolean|null { return this.control ? this.control.untouched : null; }*/
* @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 untouched(): boolean|null { return this.control ? this.control.untouched : null; }*/
* @description
* 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.
*get pristine(): boolean|null { return this.control ? this.control.pristine : null; }*/
* @description
* Reports whether the control is pristine, meaning that the user has not yet changed
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* @description
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* @description
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*get enabled(): boolean|null { return this.control ? this.control.enabled : null; }*/
* @description
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* calculations of validity or value. 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 pristine, meaning that the user has not yet 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
* Returns whether the control is touched, meaning that the user has triggered
* a 'blur' event on it. If the control is not present, null is returned.
*get untouched(): boolean|null { return this.control ? this.control.untouched : null; }*/
* @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 pristine(): boolean|null { return this.control ? this.control.pristine : 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 dirty(): boolean|null { return this.control ? this.control.dirty : null; }*/
* @description
* 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.
*get enabled(): boolean|null { return this.control ? this.control.enabled : null; }*/
* @description
* Reports whether the control is enabled, meaning that the control is included in ancestor
* calculations of validity or value. 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 pristine, meaning that the user has not yet 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
* Returns whether the control is touched, meaning that the user has triggered
* a 'blur' event on it. 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 pristine, meaning that the user has not yet changed
* the value in the UI. If the control is not present, null is returned.
return this.control.getError(errorCode, path); null

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 */

import {AbstractControlDirective} from
'./abstract_control_directive';

/**
 * @description
 * A base class
 * for directives that contain multiple registered instances of `NgControl`.
 * Only used by the forms module.
 */

export abstract class ControlContainer extends AbstractControlDirective {
  /**
   * The name for the control
   */
  name !: string | number | null;

  /**
   * The top-level form directive for the control.
   */
  get formDirective(): Form|null { return null; }

  /**
   * The path to this group.
   */
  get path(): string|null { return null; }

  /**
   * A base class that all control `FormControl`-based directives
   * extend. It binds a `FormControl` object to a DOM element.
   */

  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; }

  ngOnInit(): void {
    super.ngOnInit();
    this.ngClassHost = {};
    this.ngClassHost.ngClassUntouched = this.ngClassUntouched;
    this.ngClassHost.ngClassTouched = this.ngClassTouched;
    this.ngClassHost.ngClassPristine = this.ngClassPristine;
    this.ngClassHost.ngClassDirty = this.ngClassDirty;
    this.ngClassHost.ngClassValid = this.ngClassValid;
    this.ngClassHost.ngClassInvalid = this.ngClassInvalid;
    this.ngClassHost.ngClassPending = this.ngClassPending;
    this.ngClassHost.ngClassHost = {};

    this.ngClassStatus = {};
    this.ngClassStatus.ngClassUntouched = this.ngClassUntouched;
    this.ngClassStatus.ngClassTouched = this.ngClassTouched;
    this.ngClassStatus.ngClassPristine = this.ngClassPristine;
    this.ngClassStatus.ngClassDirty = this.ngClassDirty;
    this.ngClassStatus.ngClassValid = this.ngClassValid;
    this.ngClassStatus.ngClassInvalid = this.ngClassInvalid;
    this.ngClassStatus.ngClassPending = this.ngClassPending;
    this.ngClassStatus.ngClassHost = {};

    this.ngClassHost.ngClassUntouched = this.ngClassUntouched;
    this.ngClassHost.ngClassTouched = this.ngClassTouched;
    this.ngClassHost.ngClassPristine = this.ngClassPristine;
    this.ngClassHost.ngClassDirty = this.ngClassDirty;
    this.ngClassHost.ngClassValid = this.ngClassValid;
    this.ngClassHost.ngClassInvalid = this.ngClassInvalid;
    this.ngClassHost.ngClassPending = this.ngClassPending;
    this.ngClassHost.ngClassHost = {};
  }
}

/**
 * @description
 * Directive automatically applied to Angular form controls
 * that sets CSS classes based on control status.
 */

export class AbstractControlStatus {
  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; }

  ngOnInit(): void {
    super.ngOnInit();
    this.ngClassHost = {};
  }
}

/**
 * @description
 * FormControl object associated with a DOM element.
 * This class is used to bind a FormControl to a DOM element.
 */

export class FormControl {
  constructor(private _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; }

  ngOnInit(): void {
    super.ngOnInit();
    this.ngClassHost = {};
  }
}

/**
 * @description
 * Abstract control class
 * for directives that contain multiple registered instances of `NgControl`.
 * Only used by the forms module.
 */

export abstract class AbstractControl extends AbstractControlStatus {
  /**
   * The name for the control
   */
  name !: string | number | null;

  /**
   * The top-level form directive for the control.
   */
  get formDirective(): Form|null { return null; }

  /**
   * The path to this group.
   */
  get path(): string|null { return null; }

  ngOnInit(): void {
    super.ngOnInit();
  }
}

/**
 * @description
 * A base class that all control `FormControl`-based directives
 * extend. It binds a `FormControl` object to a DOM element.
 */

export class NgControl extends AbstractControl {
  constructor(cd: AbstractControlStatus) {
    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; }

  ngOnInit(): void {
    super.ngOnInit();
  }
}

/**
 * @description
 * Abstract control class
 * for directives that contain multiple registered instances of `NgControl`.
 * Only used by the forms module.
 */

export abstract class AbstractControl extends AbstractControlStatus {
  /**
   * The name for the control
   */
  name !: string | number | null;

  /**
   * The top-level form directive for the control.
   */
  get formDirective(): Form|null { return null; }

  /**
   * The path to this group.
   */
  get path(): string|null { return null; }

  ngOnInit(): void {
    super.ngOnInit();
  }
}
The validator exists only as a function and not as a directive.

```typescript
const control = new FormControl(2, Validators.min(3));
class AbstractControl {
  static min(min: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      return !isNaN(control.value) && control.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.
   */
  static max(max: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      return !isNaN(control.value) && control.value > max ? {'max': {'max': max, 'actual': control.value}} : null;
    }
  }

  /**
   * @description
   * Validator that requires the control have a non-empty value.
   */
  static required(control: AbstractControl): ValidationErrors | null {
    return isEmptyInputValue(control.value) ? {'required': true} : null;
  }

  /**
   * @description
   * Validator that requires the control's value be true. This validator is commonly used for required checkboxes.
   */
  static requiredTrue(control: AbstractControl): ValidationErrors | null {
    return control.value === true ? null : {'required': true};
  }

  /**
   * @description
   * Validator that requires the control's value pass an email validation test.
   */
  static email(control: AbstractControl): ValidationErrors | null {
    return EMAIL_REGEXP.test(control.value)
  }

  function updateValueAndValidity() {
    //...}
```

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 validator exists only as a function and not as a directive.

```typescript
// previous code...
```
Validator that requires the length of the control's value to be greater than or equal to the provided minimum length. This validator is also provided by default if you use the `minLength` attribute.

```typescript
Validator.minLength(minLength: number): ValidatorFn
```

This validator returns an error map with the `minlength` if the validation check fails, otherwise `null`. If you already provide the `minLength` attribute and `maxLength` is greater than the `minlength`, this validator is ignored.

### Validate that the field has a minimum of `3` characters

```html
<input minLength="3">  
```

### Validate that the field has a maximum of `5` characters

```html
<input maxLength="5">  
```

### Validate that the field has a maximum of `5` characters

```typescript
new FormControl('Angular', Validators.maxLength(5));
```

### Validate that the field has a minimum of `3` characters

```typescript
new FormControl('Angular', Validators.minLength(3));
```

### Validate that the field has a maximum of `5` characters

```typescript
new FormControl('Angular', Validators.maxLength(5));
```

### Validate that the field has a minimum of `3` characters

```typescript
new FormControl('Angular', Validators.minLength(3));
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```typescript
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```
Open Source Used In MSX SD-Branch Service Pack 3.9.0
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
    }

    /**
     * Registers a function called when the control value changes.
     *
     * @param fn The callback function
     */
    registerOnChange(fn: (_: number|null) => void): void {
      this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
    }

    /**
     * Registers a function called when the control is touched.
     *
     * @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);
    }
}

/**
 * @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 {Directive, ElementRef, Inject, Injector, Input, OnDestroy, OnInit, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  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\n
 * changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives.\n * * @usageNotes
 * * Using radio buttons with reactive form directives\n *
 * The following example shows how to use radio buttons in a reactive form. When using radio buttons in a reactive form, radio buttons in the same group should have the same 'formControlName'. Providing a 'name' attribute is optional.\n * * @example
 *
 * host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
 *
 * providers: [RADIO_VALUE_ACCESSOR]
 */

class RadioControlValueAccessor implements ControlValueAccessor {
  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {

    this._state = false;
    this._control = null;
  }

  /**
   * The registered callback function called when a change event occurs on the input element.
   * @param isDisabled The disabled value
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
  }

  /**
   * The registered callback function called when a blur event occurs on the input element.
   * @param isDisabled The disabled value
   */
  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);
  }
}

/**
 * @description
 * The `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * * @usageNotes
 * * Using radio buttons with reactive form directives\n *
 * The following example shows how to use radio buttons in a reactive form. When using radio buttons in a reactive form, radio buttons in the same group should have the same 'formControlName'. Providing a 'name' attribute is optional.\n * * @example
 *
 * host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
 *
 * providers: [RADIO_VALUE_ACCESSOR]
 */

class RadioControlValueAccessor implements ControlValueAccessor {
  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {

    this._state = false;
    this._control = null;
  }

  /**
   * The registered callback function called when a change event occurs on the input element.
   * @param isDisabled The disabled value
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
  }

  /**
   * The registered callback function called when a blur event occurs on the input element.
   * @param isDisabled The disabled value
   */
  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);
  }
}

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**
   * Adds a control to the internal registry. For internal use only.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**
   * 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;
      }
    }
  }

  /**
   * 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 `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * * @usageNotes
 * * Using radio buttons with reactive form directives\n *
 * The following example shows how to use radio buttons in a reactive form. When using radio buttons in a reactive form, radio buttons in the same group should have the same 'formControlName'. Providing a 'name' attribute is optional.\n * * @example
 *
 * host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
 *
 * providers: [RADIO_VALUE_ACCESSOR]
 */

class RadioControlValueAccessor implements ControlValueAccessor {
  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {

    this._state = false;
    this._control = null;
  }

  /**
   * The registered callback function called when a change event occurs on the input element.
   * @param isDisabled The disabled value
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
  }

  /**
   * The registered callback function called when a blur event occurs on the input element.
   * @param isDisabled The disabled value
   */
  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);
  }
}
```typescript
this._injector.get(NgControl);\nthis._checkName();\nthis._registry.add(this._control, this);\n}\n\n/**\n * Lifecycle method called before the directive’s instance is destroyed. For internal use only.\n */\n\n\n\nngOnDestroy(): void {\n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  \n  ```
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```typescript
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 [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">
    </div>
  `};

/**
 * @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 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 parent formGroup, formArrayName, or formGroupName. Option 1: Update the parent to be formGroupName (reactive form strategy)

    
    ${Examples.formGroupName}

    Option 2: Use ngModel instead of formControlName (template-driven strategy)

    
    ${Examples.ngModelGroup}`);
  }
  static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.

    
    ${Examples.formControlName}`);
  }

  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:

    
    ${Examples.formGroupName}`);
  }

  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:

    
    ${Examples.formArrayName}`);
  }

  static disabledAttrWarning(): void {
    console.warn(`This 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.`);
  }

  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 a reactive form directive 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/S[directiveName] == 'formControl'? 'FormControlDirective' : 'FormControlName' } use-with-ngmodel='true');

`};

function _buildValueString(id: string | null, value, targetType, control: FormControl, ...): string {
  if (control && control.value && control.value.length > 0) {
    return control.value;
  } else {
    return null;
  }
}

```
```
value: any): string {
  if (id == null) return `$\{value\}`;
  if (value &\& typeof value === 'object') value = Object
  return `$\{id\}: $\{value\}`.slice(0, 50);
}UPPORTED

valueString.split(':')\[0\];\n
\n/**
 * @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 reactive form**

 **The following examples show how to use a select control in a reactive form.

 **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.

 **Customizing option selection**

 **Angular uses object identity to select option. It's possible for the identities of items* to change while the data
doesn't.*

 **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, then* second response will produce objects with different identities.*

 **To customize the default option comparison algorithm, `<select>` supports `compareWith` input.

 **This takes a **function** with two arguments: `option1` and `option2`. If `compareWith` is

 **given, Angular selects option by the return value of the function.

 **The registered callback function called when a change event occurs on the input element.

 **The registered callback function called when a blur event occurs on the input element.

 **We listen to the 'change' event because 'input' events aren't fired

 **for selects in Firefox and IE:*

 **https://bugzilla.mozilla.org/show_bug.cgi?id=1024350


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'disabled', isDisabled);\n }\n\n /** @internal */\n _registerOption(): string { return (this._idCounter++).toString();
}\n\n /** @internal */\n _getOptionId(value: any): string|null {\n for (const id of
Array.from(this._optionMap.keys())) {\n
if (this._compareWith(this._optionMap.get(id), value)) return id;\n
}\n return null;\n }\n\n /** @internal */\n _getOptionValue(valueString: string): any {\n const id: string =
_extractId(valueString);\n return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;\n }\n}\n\n/**\n
* @description\n * Marks `<option>` as dynamic, so Angular can be notified when options change.\n *\n * @see
`SelectControlValueAccessor`\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n *
@publicApi\n */\n@Directive({selector: 'option'})\nexport class NgSelectOption implements OnDestroy {\n /**\n
* @description\n * ID of the option element\n */\n // TODO(issue/24571): remove '!'.\n id !: string;\n\n
constructor(\n
private _element: ElementRef, private _renderer: Renderer2,\n
@Optional() @Host() private
_select: SelectControlValueAccessor) {\n if (this._select) this.id = this._select._registerOption();\n }\n\n /**\n *
@description\n * Tracks the value bound to the option element. Unlike the value binding,\n * ngValue supports
binding to objects.\n */\n @Input('ngValue')\n set ngValue(value: any) {\n if (this._select == null) return;\n
this._select._optionMap.set(this.id, value);\n this._setElementValue(_buildValueString(this.id, value));\n
this._select.writeValue(this._select.value);\n }\n\n /**\n * @description\n * Tracks simple string values bound to
the option element.\n * For objects, use the `ngValue` input binding.\n */\n @Input('value')\n set value(value:
any) {\n this._setElementValue(value);\n if (this._select) this._select.writeValue(this._select.value);\n }\n\n /**
@internal */\n _setElementValue(value: string): void {\n this._renderer.setProperty(this._element.nativeElement,
'value', value);\n }\n\n /**\n * @description\n * Lifecycle method called before the directive's instance is
destroyed. For internal use only.\n */\n ngOnDestroy(): void {\n if (this._select) {\n
this._select._optionMap.delete(this.id);\n
this._select.writeValue(this._select.value);\n }\n }\n}\n","/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MITstyle license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,
ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ÉµlooseIdentical as
looseIdentical} from '@angular/core';\n\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
'./control_value_accessor';\n\nexport const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {\n
provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => SelectMultipleControlValueAccessor),\n
multi: true\n};\n\nfunction _buildValueString(id: string, value: any): string {\n if (id == null) return `${value}`;\n if
(typeof value === 'string') value = `'${value}'`;\n if (value && typeof value === 'object') value = 'Object';\n return
`${id}: ${value}`.slice(0, 50);\n}\n\nfunction _extractId(valueString: string): string {\n return
valueString.split(':')[0];\n}\n\n/** Mock interface for HTML Options */\ninterface HTMLOption {\n value:
string;\n selected: boolean;\n}\n\n/** Mock interface for HTMLCollection */\nabstract class HTMLCollection {\n
// TODO(issue/24571): remove '!'.\n length !: number;\n abstract item(_: number): HTMLOption;\n}\n\n/**\n *
@description\n * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
control\n * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel`\n * directives.\n * \n * @see `SelectControlValueAccessor`\n *\n * @usageNotes\n * \n * ### Using a
multi-select control\n * \n * The follow example shows you how to use a multi-select control with a reactive form.\n
* \n * ```ts\n * const countryControl = new FormControl();\n * ```\n *\n * ```\n * <select multiple
name=\"countries\" [formControl]=\"countryControl\">\n * <option *ngFor=\"let country of countries\"
[ngValue]=\"country\">\n * {{ country.name }}\n * </option>\n * </select>\n * ```\n * \n * ### Customizing
option selection\n * \n * To customize the default option comparison algorithm, `<select>` supports `compareWith`
input.\n * See the `SelectControlValueAccessor` for usage.\n *\n * @ngModule ReactiveFormsModule\n *
@ngModule FormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',\n host: {'(change)':
'onChange($event.target)', '(blur)': 'onTouched()'},\n providers:
[SELECT_MULTIPLE_VALUE_ACCESSOR]\n})\nexport class SelectMultipleControlValueAccessor implements
ControlValueAccessor {\n /**\n * @description\n * The current value\n */\n value: any;\n\n /** @internal */\n
_optionMap: Map<string, ÉµNgSelectMultipleOption> = new Map<string, ÉµNgSelectMultipleOption>();\n /**

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```typescript
@internal */\n  _idCounter: number = 0;\n  onChange = (_: any) => {};

  /**\n   * @description\n   * The registered callback function called when a change event occurs on the input element.\n   */
  onTouched = () => {};

  /**\n   * @description\n   * The registered callback function called when a blur event occurs on the input element.\n   */
  registerOnTouched(fn: () => any): void { this.onTouched = fn;

  /**\n   * @description\n   * Registers a function called when the control value changes and writes an array of the selected options.\n   * @param fn The callback function\n   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (_: any) => {
      const selected: Array<any> = [];\n      if (_.hasOwnProperty('selectedOptions')) {
        const options: HTMLCollection = _.selectedOptions;\n        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;\n        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);
    };
  }

  /**\n   * @description\n   * Tracks the value bound to the option element. Unlike the value binding, ngValue supports binding to objects.\n   */
  ngValue: any;

  value: any;

  /* @internal */
  _setElementValue(value: string): void {
    this._renderer.setProperty(this._element.nativeElement, this._elementRef.nativeElement.correctValue, value);
  }
```

/** @internal */
  _setSelected(selected: boolean) {
    this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
  }

  /**
   * @description
   *
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

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

import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
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 {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).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(() => _noControlError(dir));
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue,

  control._clearChangeFns();
}

function _noControlError(dir: NgControl): void {
  dir.valueAccessor!.registerOnTouched(() => _noControlError(dir));
}

// re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  dir._rawValidators.forEach((validator: any) => {
    if (validator.registerOnValidatorChange) {
      validator.registerOnValidatorChange(null);
    }
  });

  dir._rawAsyncValidators.forEach((validator: any) => {
    if (validator.registerOnValidatorChange) {
      validator.registerOnValidatorChange(null);
    }
  });

  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;
  });
}

function _noControlError(dir: NgControl): void {
  dir.valueAccessor!.registerOnTouched(() => _noControlError(dir));
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue,

  control._clearChangeFns();
}

function _noControlError(dir: NgControl): void {
  dir.valueAccessor!.registerOnTouched(() => _noControlError(dir));
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue,

  control._clearChangeFns();
}
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';
import {toObservable} from './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
  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 | ValidatorFn[] | null;

  return Array.isArray(validator) ? composeValidators(validator) : validator ||
      null;
}

function coerceToAsyncValidator(
    asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |
        ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
          (validatorOrOpts as AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
      AsyncValidatorFn | null;

  return Array.isArray(origAsyncValidator) ?
      composeAsyncValidators(origAsyncValidator) :
      origAsyncValidator ||
      null;
}

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 upon.
   */
  updateOn?: 'change' | 'blur' | 'submit';
}

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 '!'.
  _updateOn !: FormHooks | null;

  // TODO(issue/24571): remove '!'.
  private _parent !: FormGroup | FormArray;
  private _asyncValidationSubscription: any || null !:
      // The current value of the control.
      _pendingTouched ?: boolean;
      _onCollectionChange = () => {

      // The values of enabled controls as an object
      // with a key-
value pair for each member of the group.

* For a disabled `FormGroup`, the values of all controls as an object
* with a key-value pair for each member of the group.
* For a `FormArray`, the values of enabled controls as an array.

* public readonly value: any

* Initialize the AbstractControl instance.
* @param validator The function that determines the synchronous validity of this control.
* @param asyncValidator The function that determines the asynchronous validity of this control.

constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}}

* The parent control.
* get parent(): FormGroup|FormArray { return this._parent; }

* The validation status of the control. There are four possible validation status values:

* **INVALID**: This control has failed at least one validation check.
* **INVALID**: This control has failed at least one validation check.
* **DISABLED**: This control is exempt from validation checks.
* **VALID**: This control has passed all validation checks.

* These status values are mutually exclusive, so a control cannot be in both valid and invalid or invalid and disabled.

* Set the validation strategy of the `AbstractControl` (meaning
* the event on which the control updates itself).

* Possible values: "change" | "blur" | "submit"
* Default value: "change"
* @returns True if the control has passed all of its validation tests.
* false otherwise.

* get valid(): boolean { return this.status === VALID; }
* @returns True if this control has failed one or more of its validation checks.

* get invalid(): boolean { return this.status === INVALID; }
* @returns True if this control is in the process of conducting a validation check.

* A control is 'pending' when its 'status' is 'PENDING'.

* A control is 'disabled' when its 'status' is 'DISABLED'.
* Disabled controls are exempt from validation checks and
* are not included in the aggregate value of their ancestor controls.

* A control is 'valid' if the control has not been marked as touched.
* A control is 'valid' if the control has not been marked as touched.

* An object containing any errors generated by failing validation or

* null if there are no errors.

* public readonly errors!: ValidationErrors |

* @returns True if the user has not yet changed the value in the UI.
* A control is 'pristine' if the user has not yet changed the value in the UI; compare 'dirty'.

* Programmatic changes to a control's value do not mark it dirty.
* Programmatic changes to a control's value do not mark it dirty.

* An object containing any errors generated by failing validation or

* null if there are no errors.

* An object containing any errors generated by failing validation or

* null if there are no errors.

* A control is 'pristine' if the user has not yet changed the value in the UI.
* A control is 'pristine' if the user has not yet changed the value in the UI.

* The validation status of the control. There are four possible

* Possible values: "change" | "blur" | "submit"

* When you add or remove a validator at run time, you must call
* `updateValueAndValidity()` for the new

* `updateValueAndValidity()` for the new
validation to take effect. When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect. When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

```typescript
/**
 * Sets the async validators that are active on this
 * control. Calling this
 * overwrites any existing async validators.
 * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.
 * @param newValidator 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.
 * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
setAsyncValidators(newValidator: AsyncValidatorFn | AsyncValidatorFn[] | null): void {
  this.asyncValidator = coerceToAsyncValidator(newValidator);
}

/**
 * Empties out the async validator list.
 * @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.
 */
clearAsyncValidators(): void {
  this.asyncValidator = null;
}

/**
 * Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.
 * @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.
 */
markAsTouched(opts: {onlySelf?: boolean} = {}): void {
  (this as {touched: boolean}).touched = true;
  if (this._parent && !opts.onlySelf) {
    this._parent.markAsTouched({onlySelf: true});
  }
  this._forEachChild((control: AbstractControl) => control.markAsTouched({onlySelf: true}));
  if (this as {touched: boolean}).touched = false;
}

/**
 * Marks the control as `untouched`. Marks the control as `touched`.
 * A control is pending while the control performs async validation.
 * @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.
 */
markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
  (this as {touched: boolean}).touched = false;
  this._pendingTouched = false;
  this._forEachChild((control: AbstractControl) => control.markAsUntouched({onlySelf: true}));
  if (this as {touched: boolean}).touched = true;
}

/**
 * Marks the control as `dirty`. A control becomes dirty when
 * the control's value is changed through the UI; compare `markAsTouched`.
 * @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.
 */
markAsDirty(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = false;
  if (this._parent && !opts.onlySelf) {
    this._parent.markAsDirty({onlySelf: true});
  }
  this._forEachChild((control: AbstractControl) => control.markAsDirty({onlySelf: true}));
  if (this as {pristine: boolean}).pristine = true;
}

/**
 * Marks the control as `pristine`, and recalculates the pristine status of all parent controls.
 * @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.
 */
markAsPristine(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = true;
  this._pendingDirty = false;
  this._forEachChild((control: AbstractControl) => control.markAsPristine({onlySelf: true}));
  if (this as {pristine: boolean}).pristine = true;
}
```

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emitted.

```typescript
*\n*\n*\n/*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n*\n```
(x._parent) {
  x = x._parent;
} 

return x;
/** @internal */
_private_calculateStatus(): string {
  (this as {status: string}).status = this._calculateStatus();
} 

if (emitEvent) {
  this.statusChanges.emit(this.status);
  if (this._parent) {
    this._parent._updateControlsErrors(emitEvent);
  }
}

/** @internal */
_private_initObservables(): void {
  (this as {valueChanges: Observable<any>}).valueChanges = new EventEmitter();
  (this as {statusChanges: Observable<any>}).statusChanges = new EventEmitter();
}

private _calculateStatus(): string {
  if (this._allControlsDisabled()) return DISABLED;
  if (this.errors) return INVALID;
  if (this._anyControlsHaveStatus(PENDING)) return PENDING;
  if (this._anyControlsHaveStatus(INVALID)) return INVALID;
  return VALID;
}

/** @internal */
private _updateValue(): void;

/** @internal */
private _forEachChild(cb: Function): void;

/** @internal */
private _anyControls(condition: Function): boolean;

/** @internal */
private _allControlsDisabled(): boolean;

/** @internal */
private _syncPendingControls(): boolean;

/** @internal */
private _anyControlsHaveStatus(status: string): boolean {
  return this._anyControls((control: AbstractControl) => control.status === status);
}

/** @internal */
private _anyControlsDirty(): boolean {
  return this._anyControls((control: AbstractControl) => control.dirty);
}

/** @internal */
private _anyControlsTouched(): boolean {
  return this._anyControls((control: AbstractControl) => control.touched);
}

/** @internal */
private _onDisabledChange(onlySelf?: boolean): boolean {
  const parentDirty = this._parent && this._parent.dirty;
  return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
}

/** @internal */
abstract _updatePristine(opts: {onlySelf?: boolean} = {}): void;

/** @internal */
abstract _updateTouched(opts: {onlySelf?: boolean} = {}): void;

/** @internal */
abstract _setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void;

/**
 * Tracks the value and validation status of an individual form control.
 *
 * This is one of the three fundamental building blocks of Angular forms, along with
 * `FormGroup` and `FormArray`. It extends the `AbstractControl` class that
 * implements most of the base functionality for accessing the value, validation status,
 * user interactions and events.
 *
 * @see `AbstractControl`
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see [Usage Notes](#usage-notes)
 *
 * @usageNotes
 *
 * ### Initializing Form Controls
 *
 * Instantiate a `FormControl`, with an initial value.
 *
 * ```ts
 * const control = new FormControl('some value');
 * console.log(control.value); // 'some value'
 * ```
 *
 * The following example initializes the control with a form state object. The `value`, `disabled` keys are required in this case.
 *
 * ```ts
 * const control = new FormControl({ value: 'n/a', disabled: true });
 * console.log(control.value); // 'n/a'
 * ```
 *
 * The following example initializes the control with a sync validator.
 *
 * ```ts
 * const control = new FormControl('', Validators.required);
 * console.log(control.value); // ''
 * ```
 *
 * The following example initializes the control using an options object.
 *
 * ```ts
 * const control = new FormControl('', { validators: Validators.required, asyncValidators: myAsyncValidator });
 * ```
 *
 * Set the `updateOn` option to "blur" to update on the blur event.
 *
 * ```ts
 * const control = new FormControl('', { updateOn: 'blur' });
 * ```
 *
 * Configure the control to update on a submit event.
 *
 * ```ts
 * const control = new FormControl('', { updateOn: 'submit' });
 * ```
 *
 * Reset the control back to an initial value.
 *
 * ```ts
 * ```
 *
 * You reset to a specific form state by passing through a standalone value or a form state object that contains both a
value and a disabled state

```ts
// new FormControl('Nancy');
const control = new FormControl('Nancy');
control.reset('Drew');
```

```ts
// @publicApi
export class FormControl extends AbstractControl {
  constructor(formState: any = null, validatorOrOpts?: ValidatorFn|
```
/**
 * Register a listener for change events.
 * @param fn The method that is called when the value changes
 */
 function registerOnChange(fn: Function): void {
  this._onChange.push(fn);
}

/**
 * Register a listener for disabled events.
 * @param fn The method that is called when the disabled status changes.
 */
 function registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
  this._onDisabledChange.push(fn);
}

/**
 * @internal
 */
 function _clearChangeFns(): void {
  this._onChange = [];
  this._onDisabledChange = [];
  this._onCollectionChange = () => {};
}

/**
 * @internal
 */
 function _forEachChild(cb: Function): void {
}

/** @internal */
 function _syncPendingControls(): boolean {
  if (this.updateOn === 'submit') {
    if (this._pendingDirty) this.markAsDirty();
    if (this._pendingTouched) this.markAsTouched();
    if (this._pendingChange) {
      this.setValue(this._pendingValue, {onlySelf: true, emitModelToViewChange: false});
      return true;
    }
  }
  return false;
}

/**
 * Set the updateOn property for all controls in a form group
 * @param property The updateOn value to set on all controls.
 */
 function setUpdateOnControls(property: string): void {
  for (let i = 0; i < this.controls.length; i++) {
    this.controls[i].setUpdateOn(property);
  }
}

/**
 * A `FormGroup` aggregates the values of each child `FormControl` into one object, * with each control name as the key. It calculates its status by reducing the status values of all of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. `FormGroup` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormArray`. `FormGroup` represents a collection of controls and a group-level status.

### Create a form group with 2 controls
```ts
const form = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new FormControl('Drew'),
});

console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
console.log(form.status);  // 'VALID'
```
instead.

```typescript
* @param name The control name to register in the collection
* @param control Provides the control for the given name
* @param registerControl(name: string, control: AbstractControl): AbstractControl
* if (this.controls[name]) return this.controls[name];
* this.controls[name] = control;
* control.setParent(this);
* return control;
*/

/**
* Add a control to this group.
* @param name The control name to register in the collection
* @param control Provides the control for the given name
* addControl(name: string, control: AbstractControl): void
*/
this.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
* removeControl(name: string): void
*/
this.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
*/
this.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.
* @returns false for disabled controls, true otherwise.
* contains(controlName: string): boolean
*/
this.contains(controlName: string): boolean {
  return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
}
```

### Set the complete value for the form group
```javascript
const form = new FormGroup({
  first: new FormControl(),
  last: new FormControl()
});
console.log(form.value); // {first: null, last: null}
form.setValue({first: 'Nancy', last: 'Drew'});
console.log(form.value); // {first: 'Nancy', last: 'Drew'}
```

@throws When strict checks fail, such as setting the value of a control
that doesn't exist or if you exclude a value of a control that does exist.

### Patch the value for a form group
```javascript
const form = new FormGroup({
  first: new FormControl(),
  last: new FormControl()
});
console.log(form.value); // {first: null, last: null}
form.patchValue({first: 'Nancy'});
console.log(form.value); // {first: 'Nancy', last: null}
```

@param value The 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 `Object.keys(value).forEach(name => {
  this._throwIfControlMissing(name);
  this.controls[name].setValue(value[name], {self: true, emitEvent: options.emitEvent});
});
this.updateValueAndValidity();
```
(const controlName of Object.keys(this.controls)) {
  if (this.controls[controlName].enabled) {
    return false;
  }
  return Object.keys(this.controls).length > 0 || this.disabled;
}

/** @internal */

_checkAllValuesPresent(value: any): void {
  this._forEachChild((control: AbstractControl, name: string) => {
    if (value[name] === undefined) {
      throw new Error(`Must supply a value for form control with name: '${name}'.`);
    }
  });

  // 'FormGroup' or 'FormArray' instances.
  const arr = new FormArray([new FormControl('Nancy'), Validators.minLength(2)], new FormControl('Drew'), {});
  arr.push(new FormControl('Nancy'), new FormControl('Drew'), new FormControl('Drew'));
  arr.push(new FormControl('Nancy'), new FormControl('Drew'), new FormControl('Drew'));

  console.log(arr.value);  // ['Nancy', 'Drew']
  console.log(arr.status);  // 'INVALID'
}

/**
 * Tracks the value and validity state of an array of `FormControl`, `FormGroup` 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
 * the controls in a `FormArray` 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`.
 * The two types of validators are passed in separately as the second and third argument respectively, or together as part of an options object.
 * `FormArray` extends AbstractControl.
 * @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(controls: AbstractControl[], validatorOrOpts?: ValidatorFn|ValidatorFn[], asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[], null) {
    super(coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpdateStrategy(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
   */
  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();
  }

  /**
   * 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
   */
  insert(index: number, control: AbstractControl): void {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
  }

  /**
   * 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[index]._registerOnCollectionChange(() => {});
    this.controls.splice(index, 1);
    this.updateValueAndValidity();
  }

  /**
   * 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
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```typescript
// The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
// `updateValueAndValidity` method.
*\@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
*\@param onlySelf When true, each change only affects this control, and not its parent. Default\n*\@param 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.
*\@param value Array of latest values for the controls
*\@param options Configure options that determine how the control propagates changes and emits events after the value changes
*\@param onlySelf: When true, each change only affects this control, and not its parent. Default\n*\@param 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.
*\@param onlySelf: When true, each change only affects this control, and not its parent. Default\n*\@param 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.

```
updateValueAndValidity} method.

```typescript
reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._forEachChild((control: AbstractControl) => {
    control.reset(value, options);  
  });
  this._updatePristine(options);
  this._updateTouched(options);
  this.updateValueAndValidity(options);
}
```
instance are duplicated on the directive itself, so a reference to it\n * gives you access to the aggregate value and
validity status of the form, as well as\n * user interaction properties like `dirty` and `touched`.\n * To register
child controls with the form, use `NgModel` with a `name`\n * attribute. You may use `NgModelGroup` to create
sub-groups within the form.\n * If necessary, listen to the directive's `ngSubmit` event to be notified when the
user hasn't triggered a form submission. The `ngSubmit` event emits the original form\n * submission event.\n
In template driven forms, all `<form>` tags are automatically tagged as `NgForm`.\n * To import the
`FormsModule` but skip its usage in some forms,\n * for example, to use native HTML5 validation, add the
`ngNoForm` and the `<form>`\n * tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm`\n is\n * unnecessary because the `<form>` tags are inert. In that case, you wouldn't refrain from using
the
`formGroup` directive.\n
### Listening for form submission\n
To register\nchild controls with the form, use `NgModel` with a `name`\n * attribute. You may use `NgModelGroup` to create
sub-groups within the form.\n
### Native DOM validation UI\n
In order to prevent the native DOM form validation UI from interfering with Angular's form\n * validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever\n * `FormModule` or
`ReactiveFormModule` are imported into the application.\n
### Setting the update options\n
For native DOM validation UI with Angular forms, you can add the\n`ngNativeValidate` attribute to the `<form>` element.\n
### Setting the update options\n
The following example shows how to capture the form values from the `\nngSubmit` event.\n
```html
<form [ngSubmit]="event.preventDefault()"></form>
```

### Native DOM validation UI\n
Angular automatically adds the `novalidate` attribute on any `<form>` whenever
 * `FormModule` or
`ReactiveFormModule` are imported into the application.\n
### Setting the update options\n
In template driven forms, all `<form>` tags are automatically tagged as `NgForm`.\n * To import the
`FormsModule` but skip its usage in some forms,\n * for example, to use native HTML5 validation, add the
`ngNoForm` and the `<form>`\n * tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm`\n is\n * unnecessary because the `<form>` tags are inert. In that case, you wouldn't refrain from using
the
`formGroup` directive.\n
### Listening for form submission\n
The following example shows how to capture the form values from the `\nngSubmit` event.\n
```html
<form [ngSubmit]="event.preventDefault()"></form>
```

### Native DOM validation UI\n
Angular automatically adds the `novalidate` attribute on any `<form>` whenever
 * `FormModule` or
`ReactiveFormModule` are imported into the application.\n
### Setting the update options\n
For native DOM validation UI with Angular forms, you can add the\n`ngNativeValidate` attribute to the `<form>` element.\n
### Setting the update options\n
The following example shows how to capture the form values from the `\nngSubmit` event.\n
```html
<form [ngSubmit]="event.preventDefault()"></form>
```
NgModel): FormControl { return <FormControl>this.form.get(dir.path); }

  /**
   * @description
   * Removes the `NgModel` instance from the internal list of directives
   * @param dir The `NgModel` directive instance.
   */
  removeControl(dir: NgModel): void { resolvedPromise.then(() => { const container = this._findContainer(dir.path); if (container) { container.removeControl(dir.name); } }); }

  /**
   * @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); const group = new FormGroup({}); setUpFormContainer(group, dir); container.registerControl(dir.name, group); group.updateValueAndValidity({ emitEvent: false }); }); }

  /**
   * @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); } }); }

  /**
   * @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 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 { const ctrl = <FormControl>this.form.get(dir.path!); ctrl.setValue(value); }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */
  get control(): FormGroup { return <FormGroup>this.form.get(dir.path!); }

  /**
   * @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
     * @param group The parent group.
     */
    _parent!: ControlContainer;

    /**
     * @description
     * An array of synchronous validators for the group.
     * @internal
     * @param group An array of synchronous validators for the group.
     */
    _validators!: AsyncValidatorFn[];

    /**
     * @description
     * An array of async validators for the group.
     * @internal
     * @param group An array of async validators for the group.
     */
    _asyncValidators!: ValidatorFn[];

    /**
     * @description
     * An internal callback method triggered on the instance
     * after the inputs are set.
     */
    _asyncValidators!: ValidatorFn[];

    /**
     * @description
     * Registers the group with its parent group.
     */
    _registerControl(dir: NgModelGroup): void { this._registerControl(dir, this.formDirective); }

    /**
     * @description
     * An internal callback method triggered before the instance is destroyed.
     */
    _onDestroy(): void { this._onDestroy(); }

    /**
     * @description
     * A base class for code shared between the `NgModelGroup` and
     * `FormGroupName` directives.
     * @publicApi
     * @inheritdoc
     */
    export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
      /**
       * @description
       * The parent control for the group.
       * @internal
       * @param group The parent group.
       */
      _parent!: ControlContainer;

      /**
       * @description
       * An array of synchronous validators for the group.
       * @internal
       * @param group An array of synchronous validators for the group.
       */
      _validators!: AsyncValidatorFn[];

      /**
       * @description
       * An array of async validators for the group.
       * @internal
       * @param group An array of async validators for the group.
       */
      _asyncValidators!: ValidatorFn[];

      /**
       * @description
       * A base class for code shared between the `NgModelGroup` and
       * `FormGroupName` directives.
       * @publicApi
       * @inheritdoc
       */
      export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
        /**
         * @description
         * The parent control for the group.
         * @internal
         * @param group The parent group.
         */
        _parent!: ControlContainer;

        /**
         * @description
         * An array of synchronous validators for the group.
         * @internal
         * @param group An array of synchronous validators for the group.
         */
        _validators!: AsyncValidatorFn[];

        /**
         * @description
         * An array of async validators for the group.
         * @internal
         * @param group An array of async validators for the group.
         */
        _asyncValidators!: ValidatorFn[];

        /**
         * @description
         * A base class for code shared between the `NgModelGroup` and
         * `FormGroupName` directives.
         * @publicApi
         * @inheritdoc
         */
      }

      /**
       * @description
       * A base class for code shared between the `NgModelGroup` and
       * `FormGroupName` directives.
       * @publicApi
       * @inheritdoc
       */
    }

    /**
     * @description
     * A base class for code shared between the `NgModelGroup` and
     * `FormGroupName` directives.
     * @publicApi
     * @inheritdoc
     */
  }

  /**
   * @description
   * A base class for code shared between the `NgModelGroup` and
   * `FormGroupName` directives.
   * @publicApi
   * @inheritdoc
   */
}
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"]>

      ${Examples.static modelGroupParentException}:

      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.ngModelGroup}`);
  }
}

import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
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.
 *
 * This directive can only be used as a child of `NgForm` (within `<form>` tags).
*
 * Use this directive to validate a sub-group of your form separately from the
 * rest of your form, or if some
values in your domain model make more sense to consume together in a nested object.
*
 * 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:
*
 * Place your forms/ts/ngModelGroup example.ts region=Component
*
 * @publicApi
*
 * @Directive
*   (selector: '[ngModelGroup]'
*    providers: [AbstractFormGroupDirective], exportAs:
*      ngModelGroup)
*   )
*
 * NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy
*
 * & Host() & SkipSelf() parent: ControlContainer


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@Optional() @Self() @Inject(NG_VALIDATORS) validators: any[]
  @Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]
  /** @internal */
    _checkParentType(): void {
      if (!this._parent instanceof NgModelGroup) {
        TemplateDrivenErrors.modelGroupParentException();
      }
    }

    /**
     * @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 {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)
    };
within a group

The following example shows you how to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data.

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}">
</form>
```

```
// This is not reflected in the type of the property because outside of templates,
// should only deal with booleans. In templates, it is allowed for convenience and to
// match the native \"disabled\" attribute\" semantics which can be observed on input elements.
// This static member tells the compiler that values of type \"string\" can also be assigned
// to the input in a template.

/** @nodoc */
static ngAcceptInputType_isDisabled: boolean|string;
```

```html
<my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}">
</my-person-control>
```

The name attribute is used within a custom form component, and the name \`@Input\` property serves a different purpose: it's used to retrieve this control's value.

```html
@Directive(
  selector: '[ngModel]:not([formControlName]):not([formControl])',
  providers: [formControlBinding],
  exportAs: 'ngModel',
)(
@Pipecloak\(NgModel\))\n
interfaceNgModelOptions
```

```html
@Directive({
  selector: '[ngModel]:not([formControlName]):not([formControl])',
  providers: [formControlBinding],
  exportAs: 'ngModel'
})
export class NgModel extends NgControl implements OnChanges,
    OnDestroy {
  public readonly control: FormControl = new FormControl();

  // At runtime we coerce arbitrary values assigned to the
  \"is\" attribute to a \"boolean\". This is not reflected in the type of the property because outside of templates,
  // should only deal with booleans. In templates, it is allowed for convenience and to
  // match the native \"disabled\" attribute\" semantics which can be observed on input elements.
  // This static member tells the compiler that values of type \"string\" can also be assigned
  // to the input in a template.
  /** @nodoc */
  static ngAcceptInputType_isDisabled: boolean|string;

  /**
   * @description
   * A lifecycle method called when
   * the directive's inputs change. For internal use
   * only.\n   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges) {
    if (this._registered) this._setUpControl();
    if ('isDisabled' in changes) {
      this._updateDisabled(changes);
    }
    // A lifecycle method called when the
    // directive's inputs change. For internal use
    // only.
    if (isPropertyUpdated(changes, this.viewModel)) {
      this._updateValue(this.model);
      this.viewModel = this.model;
    }
  }
```

```html
@Directive({
  selector: '[ngModel]:not([formControlName]):not([formControl])',
  providers: [formControlBinding],
  exportAs: 'ngModel',
})(
@Pipecloak\(NgModel\))\n
interfaceNgModelOptions
```

```html
@Directive({
  selector: '[ngModel]:not([formControlName]):not([formControl])',
  providers: [formControlBinding],
  exportAs: 'ngModel'
})
export class NgModel extends NgControl implements OnChanges,
    OnDestroy {
  public readonly control: FormControl = new FormControl();

  // At runtime we coerce arbitrary values assigned to the
  \"is\" attribute to a \"boolean\". This is not reflected in the type of the property because outside of templates,
  // should only deal with booleans. In templates, it is allowed for convenience and to
  // match the native \"disabled\" attribute\" semantics which can be observed on input elements.
  // This static member tells the compiler that values of type \"string\" can also be assigned
  // to the input in a template.
  /** @nodoc */
  static ngAcceptInputType_isDisabled: boolean|string;

  /**
   * @description
   * A lifecycle method called when
   * the directive's inputs change. For internal use
   * only.\n   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges) {
    if (this._registered) this._setUpControl();
    if ('isDisabled' in changes) {
      this._updateDisabled(changes);
    }
    // A lifecycle method called when the
    // directive's inputs change. For internal use
    // only.
    if (isPropertyUpdated(changes, this.viewModel)) {
      this._updateValue(this.model);
      this.viewModel = this.model;
    }
```
```typescript
controlPath(this.name, this._parent) : [this.name];

/**
 * @description
 * The top-level directive for this control if present, otherwise null.
 * @param controlPath The path to the control.
 * @param controlPath is a string.
 */
get formDirective(): any {
  return this._parent ? this._parent.formDirective : null;
}

/**
 * @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|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}

/**
 * @description
 * Sets the new value for the view model and emits an `ngModelChange` event.
 * @param newValue The new value emitted by the form.
 */
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}

private _setUpControl(): void {
  this._setUpStrategy();
  this._isStandalone() ? this._setUpStandalone() :
    this.formDirective.addControl(this);
  this._registered = true;
}

private _setUpStrategy(): 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 && disabledValue !== 'false');
  resolvedPromise.then(() => {
    if (isDisabled && !this.control.disabled) {
      this.control.disable();
    } else if (!isDisabled && this.control.disabled) {
      this.control.enable();
    }
  });
}
```

```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 {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};
```

```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 {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.
 * * This has been deprecated in Angular v6 and will be removed in a future version of Angular
 * * Now deprecated:
 * * ```html
 *   <input [formControl]='control' [(ngModel)]='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' [value]='some value'>
 * ```
 * * After (choice 2 - use template-driven forms):
 * * ```html
 *   <input [(ngModel)]['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.
 * * By default, 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.
 * * 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.
asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n
@Optional() @Self()
@Inject(NG_VALUE_ACCESSOR)\n
valueAccessors: ControlValueAccessor[],\n
@Optional()
@Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {\n
super();\n
this._rawValidators = validators || [];\n
this._rawAsyncValidators =
asyncValidators || [];\n
this.valueAccessor = selectValueAccessor(this, valueAccessors);\n
}\n\n
/**\n
* @description\n
* A lifecycle method called when the directive's inputs change. For
internal use\n
* only.\n
*\n
* @param changes A object of key/value pairs for the set of
changed inputs.\n
*/\n
ngOnChanges(changes: SimpleChanges): void {\n
if
(this._isControlChanged(changes)) {\n
setUpControl(this.form, this);\n
if (this.control.disabled
&& this.valueAccessor !.setDisabledState) {\n
this.valueAccessor !.setDisabledState !(true);\n
}\n
this.form.updateValueAndValidity({emitEvent: false});\n
}\n
if
(isPropertyUpdated(changes, this.viewModel)) {\n
_ngModelWarning(\n
'formControl',
FormControlDirective, this, this._ngModelWarningConfig);\n
this.form.setValue(this.model);\n
this.viewModel = this.model;\n
}\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[] { return []; }\n\n
/**\n
* @description\n
* Synchronous validator function composed of all the synchronous validators\n
*
registered with this directive.\n
*/\n
get validator(): ValidatorFn|null { return
composeValidators(this._rawValidators); }\n\n
/**\n
* @description\n
* Async validator
function composed of all the async validators registered with this\n
* directive.\n
*/\n
get
asyncValidator(): AsyncValidatorFn|null {\n
return
composeAsyncValidators(this._rawAsyncValidators);\n
}\n\n
/**\n
* @description\n
* The `FormControl` bound to this directive.\n
*/\n
get control(): FormControl { return this.form;
}\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
viewToModelUpdate(newValue: any): void {\n
this.viewModel = newValue;\n
this.update.emit(newValue);\n
}\n\n
private _isControlChanged(changes: {[key: string]: any}):
boolean {\n
return changes.hasOwnProperty('form');\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\nimport {Directive, EventEmitter, Inject, Input,
OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';\nimport {FormArray,
FormControl, FormGroup} from '../../model';\nimport {NG_ASYNC_VALIDATORS, NG_VALIDATORS,
Validators} from '../../validators';\nimport {ControlContainer} from '../control_container';\nimport {Form} from
'../form_interface';\nimport {ReactiveErrors} from '../reactive_errors';\nimport {cleanUpControl,
composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer,
syncPendingControls} from '../shared';\n\nimport {FormControlName} from './form_control_name';\nimport
{FormArrayName, FormGroupName} from './form_group_name';\n\nexport const formDirectiveProvider: any = {\n
provide: ControlContainer,\n useExisting: forwardRef(() => FormGroupDirective)\n};\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@Directive({\n selector: '[formGroup]',\n providers:
[formDirectiveProvider],\n host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},\n exportAs:
'ngForm'\n})\nexport class FormGroupDirective extends ControlContainer implements Form,\n OnChanges {\n

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```typescript
/**
 * @description
 * Reports whether the form submission has been triggered.
 */
public readonly submitted: boolean = false;

/**
 * @description
 * Tracks the list of added 'FormControlName' instances
 * @directives: FormControlName[] = [];
 */
@description
* Tracks the 'FormGroup' bound to this directive.
@Input('FormGroup') form: FormGroup = null !;

/**
 * @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 (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
 * 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 []; }

/**
 * @description
 * Returns the 'FormControl' group of this directive.
 */
* get control(): FormControl { return <FormControl>this.form.get(dir.path); }

/**
 * @description
 * Removes the 'FormGroup' instance from the internal list of directives.
 */
* removeFormGroup(dir: FormGroupName): void {
  removeDir<FormGroupName>(this.directives, dir);
}

/**
 * @description
 * No-op method to remove the form array.
 */
* removeFormArray(dir: FormArrayName): void {}

/**
 * @description
 * Returns new 'FormArrayName' directive instance to the form.
 */
* getFormArray(dir: FormArrayName): FormArray { return <FormArray>this.form.get(dir.path); }

/**
 * Sets the new value for the provided 'FormControlName' directive.
 */
* updateModel(dir: FormControlName, value: any): void {
  const ctrl = <FormControl>this.form.get(dir.path);
  ctrl.setValue(value);
}

/**
 * Called with the "submit" event is triggered on the form.
 */
* onSubmit($event: Event): boolean {
  (this as { submitted: boolean }).submitted = true;
  syncPendingControls(this.form, this.directives);
  this.ngSubmit.emit($event);
  return false;
}
```

event is triggered on the form.

```typescript
public onReset(): void { this.resetForm(); }
public resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as {control: FormControl}).control = newCtrl;
    }
  });
  this.form._updateDomValue();
  this.form._updateRegistrations();
  this.form._updateValidators();
  this._checkFormPresent();
}
```

This directive can only be used with a parent `FormGroupDirective`. It accepts the string name of the nested `FormGroup` to link, and looks for a `FormGroup` registered with that name in the parent `FormGroup` instance you passed into `FormGroupDirective`. The following example uses `FormGroup` to link, and looks for a `FormGroup` registered with that name in the parent `FormGroup` instance you passed into `FormGroupDirective`. The following example registers a nested *FormGroup* within an existing 'FormGroup' and provides methods to retrieve the nested 'FormGroup' and individual controls.

```typescript
const FormGroupNameProvider: any = {
  provide: ControlContainer
}
```

The following example uses the `FormGroupDirective` to retrieve the nested *FormGroup* and individual controls.

```typescript
const nestedFormGroupExample = new FormGroup({
  name: new FormControl(''),
  age: new FormControl(0)
});
```
formArrayNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormArrayName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 *
 * This directive is designed to be used with a `FormGroupDirective` (selector: `*['[formGroup']`]`). It accepts
 * the string name of the nested `FormArray` you want to link, and it will look for a `FormArray` registered with that
 * name in the parent. The `FormGroup` instance you passed into `FormGroupDirective`.
 *
 * It 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`.
 *
 * @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`.
   *
   * 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`.
   *
   * @ngModule ReactiveFormsModule
   * @publicApi
   * @Directive({selector: '[formArrayName]', providers: [formArrayNameProvider]})
   */

  constructor(@Optional() @Host() @SkipSelf() parent: ControlContainer,
              @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
  }

  ngOnInit(): void {
    this._checkParentType();
    this.formDirective!.addFormArray(this);
  }

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormArray(this);
    }
  }

  get control(): FormArray { return this.formDirective!.getFormArray(this); }

  get formDirective(): FormGroupDirective|null {
    return this._parent ? <FormGroupDirective>this._parent.formDirective : null;
  }

  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }

  private _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.arrayParentException();
    }
  }

  // ...
'./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
 * by name. 
 * 
 * `FormControl` can be in an existing `FormGroup` to a form control
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 * 
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 * 
 * The following example shows how to register multiple form controls
 * within a form group and set the value. 
 * 
 * ```
 * To see
 * 'formControlName' examples with different form control types, see:
 * ```

RadioControlValueAccessor

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
* <form 
  * @Input('formControlName') name !: string | number | null;

* @Input('disabled')
  * set isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }

* @Output('ngModelChange') update = new EventEmitter();

* @description
* Triggers a warning that this input should not be used with reactive forms.

* @description
* Triggers a warning that this input should not be used with reactive forms.

* @output
  * @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 FormControlName. Used to support warning config of `\once\`. *
 * @internal
 * @static
 * @ngModelWarningSentOnce = false
 * @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\`
 * @internal
 * @ngModelWarningSent = false
 * @description
 * A lifecycle method called when the directive's inputs change. For internal use only.
 * @param
 * 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);
 * }
 * }
 * @ngOnDestroy
 * void {
 * if (this.formDirective) {
 * this.formDirective.removeControl(this);
 * }
 * }
 * @viewToModelUpdate
 * (newValue: any) {
 * this.viewModel = newValue;
 * this.update.emit(newValue);
 * }
 * @path
 * string[] {
 * return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
 * }
 * @formDirective
 * any {
 * return this._parent.formDirective;
 * }
 * @validator
 * (Validators);
 * }
 * @asyncValidator
 * (AsyncValidator);
 * }
 * @private_ngModelWarningConfig
 * string[]
 * @ngModelWarningSent
 * boolean
 * @ngModelWarningSentOnce
 * boolean
 * @ngOnDestroy
 * void
 * @ngModelWarning
 * (ModelWarningConfig: string[])
 * @ngOnChanges
 * void
 * @ngOnDestroy
 * void
 * @ngModelWarning
 * (ModelWarningConfig: string[])
 * @ngModelWarningSent
 * boolean
 * @ngModelWarningSentOnce
 * boolean
 * @constructor
 * void
 * @get
 * string[]
 * @useExisting
 * (existing: Existing)
 * @provide
 * (provider: Provider)
 * @select
 * (selector: Selector)
 * @factory
 * (factory: Factory)
 * @forwardRef
 * (forwardRef: ForwardRef)
 * @import
 * (import: Import)
 * @export
 * (export: Export)
 * @module
 * (module: Module)
 * @alias
 * (alias: Alias)
 * @namespace
 * (namespace: Namespace)
 * @typedef
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 * @interface
 * (interface: Interface)
 * @enum
 * (enum: Enum)
 * @constant
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* return {'custom': true};

* `publicApi` is not used in this context.

* The control to validate against.

* `param` is a control parameter.

* `validate(control: AbstractControl): ValidationErrors|null` is a method.

* `required` is a boolean.

* `@publicApi` is not exported to the interface.

* `Validator` is an interface.

* `validate(control: AbstractControl): ValidationErrors|null` is a method.

* `registerOnValidatorChange?(fn: () => void): void` is a method.

* `AsyncValidator` is an interface.

* `validate(control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>` is a method.

* `provider` is an object.

* `null` is not used.

* `ngModel` is not used.

* `checkboxRequiredValidator` is a directive.

* `ngModel` is not used.

* `CheckboxRequiredValidator` is a directive.

* `required` is a boolean.

* `null` is not used.
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ValidationErrors|null { \n return this.minlength == null ? null : this._validator(control);\n }\n\n/**\n * Registers a callback function to call when the validator inputs change.\n * @param fn The callback function\n */\n@description\n* registerOnValidatorChange(fn: () => void): void {\n this._onChange = fn;\n }\n\nprivate _createValidator(): void {\n this._validator = Validators.minLength(\n typeof this.minlength === 'number' ?\n this.minlength : parseInt(this.minlength, 10));\n }\n\n/**\n * A directive that adds max length validation to controls marked with\n * the `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\nMAX_LENGTH_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() =>\n MaxLengthValidator),\n multi: true};\n\n/**\n * A directive that adds pattern validation to controls marked with the\n * `pattern` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\nPATTERN_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() =>\n PatternValidator),\n multi: true};\n\n/**\n * A directive that adds min length validation to controls marked with the\n * `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\nMIN_LENGTH_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() =>\n MinLengthValidator),\n multi: true};
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 {
  return (<AbstractControlOptions>options).asyncValidators !== undefined ||
    (<AbstractControlOptions>options).validators !== undefined ||
    (<AbstractControlOptions>options).updateOn !== undefined;
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormArray`, 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 legacy group options
        validators = options['validator'] != null ? options['validator'] : null;
        asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
      }
    }

    return new FormGroup(controls, {validators, updateOn, validators});
  }

  /**
   * @description
   * Construct a new `FormControl` with the given state, validators and options.
   *
   * @param formState Initializes the control with an initial state value, or with an object that contains both a value and a disabled status.
   *
   * @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.
   *
   * @usageNotes
   *
   * ### Initialize a control as disabled
   *
   * The following example returns a control with an initial value in a disabled state.
   */
  control(formState: any, validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null, asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {
    return new FormControl(formState, validatorOrOpts, asyncValidator);
  }

  /**
   * Constructs a new `FormArray` from the given array of configurations, validators and options.
   *
   * @param controlsConfig An array of child controls or control configs. Each control is given an index when it is registered.
   * @param options A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
   */
  array(controlsConfig: any[], options?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null, asyncOptions?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray {
    const controls = controlsConfig.map(c =>

    return new FormArray(controls, {validators, updateOn, validators});
  }

  // Additional methods and logic...
}
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GAaBk,UAaU,CAAC,MAAM,CAAC,SAAS,CAQQ,CAAC,QAC7E,IAAI,IBAAiB,CAAC,MAAM,IAAI,CAAC;
YAAE,OAEO,IAAI,CAAC,QAC+C,QAAO,UAaW,YACtC,OAEO,YAaY,CAAC,kBAAK,B,CAAC,OAaO,E,
EAAE,IBAAiB,CAAC,CAAC,CAAC,SACRe,CAAC,KAC;.........;IAaM,UAaA,GAAnB,UAaOB,UAaQ,C;
QACvD,IAAI,CAAC,UAUU;YAAE,OAEO,IAAI,CAAC,QAC7B,IAAM,IBAAiB,GAaBk,UAaU,CAAC,MAAM,
CAAC,SAAS,CAQQ,CAAC,QACIF,IAAI,IBAAiB,CAAC,MAAM,IAAI,CAAC,YAAE,OAEO,IAAI,CAAC;
YAE+;QAC9D,IAAO,UAaW,YACtC,IAAM,WAaW,GAaa,UAaBk,CAAC,OAaO,EAAE,IBAAiB,CAAC,CAAC,
GAAG,CAAC,YAY,CAAC,CAAC,CAAC,YAAE,OAAO,WAaW,CAAC,CAAC,CAAC,CAAC,GAAG,CAAC,
YAAE,CAAC,CAAC,CAAC,SACtD,CAAC,KAC;IACH,iBAAc,CAAA,IAAA;EAAE,SAAS,SAAS,CAAC,
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C1CzhB,EAAQmnB,gCAAAkCrE,GAC1C9hB,EAAQonB,gCAAAkCZf,GAC1C3hB,EAAQnnB,gCAAAkCSG,GAC1C
zIB,EAAQsnB,gCAAAkC1E,GAC1C5iB,EAAQmBnB,gCAAAkChX,EAC1CvQ,EAAQwnB,gCAAAkChV,EAC1Cxs,E
AAQNnB,gCAAAkCJU,GAC1CtX,EAAQonB,gCAAAkCVx,GAC1CnhB,EAAQ2nB,gCAAAkCZe,GAE1C1hB,OA
AO +B,eAae/C,EAAS,aAcAc,CAAE6D,OAAS,"sourcesContent"="*/

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*****************************************************************************

/**
 * @license Angular v9.0.7
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 */

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

    /*
    *****************************************************************************/

    var extendStatics = function(d, b) {
        extendStatics = Object.setPrototypeOf ||
            ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
            function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
        return extendStatics(d, b);
    }

    function __extends(d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    }

    var __assign = function() {
        __assign = Object.assign || function __assign(t) {
            for (var s, i = 1, n = arguments.length; i < n; i++) {
                s = arguments[i];
                for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0)
                    t[p] = s[p];
            }
            return t;
        };
        return __assign.apply(this, arguments);
    }

    function __rest(s, e) {
        var t = {};
        for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0)
            t[p] = s[p];
        if (s != null && typeof Object.getOwnPropertySymbols === "function")
            for (var i = 0, p = Object.getOwnPropertySymbols(s); i < p.length; i++) {
                if (e.indexOf(p[i]) < 0 && Object.prototype.propertyIsEnumerable.call(s, p[i]))
                    t[p[i]] = s[p[i]];}
        return t;
    }

    function __decorate(decorators, target, key, desc) {
        var c = arguments.length, r = c < 3 ? target :
            desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;`
        if (typeof Reflect === "object" && typeof Reflect.decorate === "function") r = Reflect.decorate(decorators, target, key, desc);
        else if (c < 3)
            d = desc;
        else if (c < 4)
            d = (c < 2 ? desc : new Function("return desc;")()) || desc;
        else if (c >= 4)
            d = (c < 6 ? desc : new Function("return desc;")())().apply(target, arguments.slice(3));
        return c > 3 && r && Object.defineProperty(target, key, r), r;
    }

    function __param(paramIndex, decorator) {
        return function (target, key) { decorator(target, key, paramIndex); }
    }

    function __metadata(metadataKey, metadataValue) {
        if (typeof Reflect === "object" && typeof Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue);
    }

    function __awaiter(thisArg, _arguments, P, generator) {
        return new (P || (P = Promise))(function (resolve, reject) {
            function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }
            function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
            function step(result) {
                result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.value); }, function (reject) { reject(result); });
            }
            step((generator = generator.apply(thisArg, _arguments || [])).next());
        });
    }

    function __generator(thisArg, body) {
        var __s, __f, __p, __r, __x, __t, __h, __d, __e;
        return { next: function () { if (null == __x) return { value: undefined, done: true }; return { value: __x[0], done: false }; }, step: function (arg) {
                if (null == __t) {
                    if (null == __d) {
                        if (null == __h) __h = new Promise(function (resolve) { __h.resolve = resolve; });
                    }
                    if (null == __f) __f = thisArg朐easure(function (resolve, reject) {
                        function fulfilled(value) { try { step(generator.next(value)); }
                            function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
                            function step(value) { if (null == __t) throw new TypeError("nonpromised");
                                try { __t = step(generator.next(value)); } catch (e) { __r = __t.done ? resolve(__t.value) : reject(__t.value); return; }
                            }
                        }
                    });
                }
                if (null == __p) __p = new Set();
                if (null == __x) __x = __t ? __t.value : (value = __r ? --__d[0] : __f[0][0], __f[0][1](value)).done ? null : ((__p[0] = __p[0] || new Set(), __p[0].add(value)), __r = __f[0][0](value), value)
            }, throw: function (e) { if (null == __t) throw e; __t["throw"](e); }, from: function (x) {
                if (null == __t) throw new TypeError("Invalid iterable" + typeof x);
                return;
            }}
        } } } };
```javascript
function verb(n) { return function (v) {
    return function step(op) {
        if (op === 7) throw new TypeError("Generator is already executing.");
        while (true) try {
            if (f === 1, y & (t = op[0] & 2 ? y["return"] : op[0] ? y["throw"] || (t = y["return"] ? t & call(y, 0), y.next) & (t = call(y, op[1])): done) return t;
            if (y = 0, t) op = [op[0] & 2, t.value];
            switch (op[0]) {
                case 0: case 1: t = op; break;
                case 4: _label++; return { value: op[1], done: false }; _label++;
                case 5: _label += y;
                case 7: op = body.call(thisArg, _); break;
                case 8: try { return step(_); } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }
            }
        }
        return step([n, v]);
    }
}

function makeTemplateObject(cooked, raw) {
    return (Object.defineProperty(cooked, "raw", { value: raw }) || object) || (Object.defineProperty(cooked, "cooked", { value: cooked }) || object) || { cooked, raw } || object; }
```

result;\n    }\n    return (mod && mod.__esModule) ? mod : {\n        default: mod };\n\n    function __importDefault(mod) {\n        return (mod && mod.__esModule) ? mod : {\n            default: mod };\n\n    }\n\n    /**\n     * @license\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     */\n    /**\n     * Used to provide a 'ControlValueAccessor' for form controls.\n     * @publicApi\n     */\n    var NG_VALUE_ACCESSOR = new core.InjectionToken('NG_VALUE_ACCESSOR');\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    var CHECKBOX_VALUE_ACCESSOR = {\n        provide: NG_VALUE_ACCESSOR,\n        useExisting: core.forwardRef(function () { return CheckboxControlValueAccessor; }),\n        multi: true,\n    }\n\n    CheckboxControlValueAccessor = __decorate([], CheckboxControlValueAccessor)\n\n    function _isAndroid() {\n        var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';\n        return /android (\d+)/.test(userAgent.toLowerCase());\n    }\n\n    function COMPOSITION_BUFFER_MODE {\n        provide: CompositionEventMode,\n        useExisting: core.forwardRef(function () { return CompositionEventMode; }),\n        multi: true,\n    }\n\n    function isCompositionEnd(event) {\n        return event.type === 'compositionend';\n    }\n\n    function getCompositionEventModeValue() {\n        return COMPOSITION_BUFFER_MODE ? 'compositionstart' : 'compositionend';\n    }\n\n    function getCompositionModeValue() {\n        return COMPOSITION_BUFFER_MODE ? 'compositionstart' : 'compositionend';\n    }\n\n    function getCompositionInputValue() {\n        return COMPOSITION_BUFFER_MODE ? 'compositionstart' : 'compositionend';\n    }\n\n    function getCompositionInputValueAndMode() {\n        return COMPOSITION_BUFFER_MODE ? 'compositionstart' : 'compositionend';\n    }\n\n    function getCompositionInputValueAndModeAndValue() {\n        return COMPOSITION_BUFFER_MODE ? 'compositionstart' : 'compositionend';\n    }\n\n    function getCompositionInputValueAndModeAndValueAndModeAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndValueAndV

by the 'FormControlDirective', 'FormControlName', and \n  * 'NgModel' directives.\n  *\n  * The following example shows how to use an input\n  * element that activates the default value accessor\n  * (in this case, a text field).\n  */\n
  var firstNameControl = new FormControl();\n
  <input type="text" [formControl]="firstNameControl">

  this._composing = false;\n  if (this._compositionMode == null) {\n    this._compositionMode = !_isAndroid();\n  }\n
  var normalizedValue = value == null ? '' : value;\n
  this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n
  DefaultValueAccessor.prototype.writeValue = function (value) {\n    var normalizedValue = value == null ? '' : value;\n
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n  };

  AbstractControlDirective = /** @class */ (function () {\n    function AbstractControlDirective() {\n    }\n
    AbstractControlDirective.prototype.value = {\n      @description\n      * The value of the input element.\n    }\n
    AbstractControlDirective.prototype._handleInput = function (value) {\n      if (!this._compositionMode ||\n          (this._compositionMode && !this._composing)) {\n        this.onChange(value);\n      }\n    };

    class EditControl extends AbstractControlDirective {\n      constructor() {\n        super();\n        this._compositionMode = 'compositionstart';\n      }\n
      setValue(value) {\n        this._compositionMode = 'compositionend';\n      }\n    }
  })();

  EditControl = EditControl();

  console.log(EditControl.value);
* Reports the value of the control if it is present, otherwise null.
 */
get: function () { return this.control ? this.control.value : null; },

\n enumerable: true,

\n configurable: true
 });

Object.defineProperty(AbstractControlDirective.prototype, "value", {
            /**
             * @description
             * Returns the value of the control if it is present, otherwise null.
             * If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.value : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "status", {
            /**
             * @description
             * Reports the validation status of the control. Possible values include:
             * 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
             */
            get: function () { return this.control ? this.control.status : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "errors", {
            /**
             * @description
             * Reports whether a control is invalid, meaning that an error exists in the input value.
             * If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.errors : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "valid", {
            /**
             * @description
             * Reports whether the control is valid. A control is considered valid if no validation errors exist with the current value.
             * If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.valid : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
            /**
             * @description
             * Reports whether the control is invalid, meaning that an error exists in the input value.
             * If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.invalid : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "dirty", {
            /**
             * @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: function () { return this.control ? this.control.dirty : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "pristine", {
            /**
             * @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: function () { return this.control ? this.control.pristine : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "enabled", {
            /**
             * @description
             * Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.enabled : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "disabled", {
            /**
             * @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. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.disabled : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "pending", {
            /**
             * @description
             * 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.
             */
            get: function () { return this.control ? this.control.pending : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "touched", {
            /**
             * @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 returned.
             */
            get: function () { return this.control ? this.control.touched : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "untouched", {
            /**
             * @description
             * Returns null if the control is present, otherwise returns the value of the control if it is present.
             * If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.untouched : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "statusChanges", {
            /**
             * @description
             * Returns a multicasting observable that emits a validation status whenever it is
             * a `blur` event on it. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.statusChanges : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "statusChanges", {
            /**
             * @description
             * Returns a multicasting observable that emits a validation status whenever it is
             * a `blur` event on it. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.statusChanges : null; },
            enumerable: true,
            configurable: true
        });

Object.defineProperty(AbstractControlDirective.prototype, "statusChanges", {
            /**
             * @description
             * Returns a multicasting observable that emits a validation status whenever it is
             * a `blur` event on it. If the control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.statusChanges : null; },
            enumerable: true,
            configurable: true
        });
The path to this group.

* @description
* The top-level form directive for the control.

* 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
* 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`:

```
form = new 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:

  1. An array of string control names, e.g. `['address', 'street']`
  1. 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.

* @description
* Reports error data for the control with the given path.

* @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`:

```
form = new 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:

  1. An array of string control names, e.g. `['address', 'street']`
  1. A period-delimited list of control names in one string, e.g. `address.street`

* If particular error. If the control or error is not present, null is returned.

* @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.

* If the control is not present, null is returned.

* @description
* Returns an array of string control names, e.g. `['address', 'street']`

* @usageNotes
* For example, for the following `FormGroup`:

```
form = new 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:

  1. An array of string control names, e.g. `['address', 'street']`
  1. A period-delimited list of control names in one string, e.g. `address.street`

* If particular error. If the control or error is not present, null is returned.

* @description
* Returns a multicasting observable of status changes for the control.

* The path to this group.

* @description
* The top-level form directive for the control.

* 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.

* If the control is not present, null is returned.

* @description
* Returns an array of string control names, e.g. `['address', 'street']`

* @usageNotes
* For example, for the following `FormGroup`:

```
form = new 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:

  1. An array of string control names, e.g. `['address', 'street']`
  1. A period-delimited list of control names in one string, e.g. `address.street`

* If particular error. If the control or error is not present, null is returned.
MIT-style license that can be
* found in the LICENSE file at https://angular.io/license
*/
function unimplemented() { throw new Error('unimplemented'); }

// @description
*/
*/
/* @access
*/
*/
/* @class
*/
*/
/* @extends
*/
*/
/* @method
*/
*/
/* @property
*/
*/
/* @return
*/
*/
/* @throws
*/
*/
/* @function
*/
*/
/* @return
*/
*/
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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
*/

Open Source Used In MSX SD-Branch Service Pack 3.9.0
5347
Open Source Used In MSX SD-Branch Service Pack 3.9.0  

```typescript
/**
 * @description
 * Directive automatically applied to Angular form
 * groups that sets CSS classes based on control status (valid/invalid/dirty/etc).
 * @see `NgControlStatus`
 * @publicApi
 */
function NgControlStatusGroup(cd) {
    return NgControlStatusGroup;
}

/**
 * @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
 */
function isEmptyInputValue(value) {
    // we don't check for string here so it also works with arrays
    return value == null || value.length === 0;
}

/**
 * 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 (`.`). For example `localhost` or `foo.com`.
 * - 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 (`.`).
 * - The whole address cannot be longer than 254 characters.
 * - Disallow `local-part` to begin or end with a period (`.`).
 * - Disallow `local-part` to exceed 64 characters.
 * - Disallow `local-part` length to exceed 254 characters.
 * - Disallow total address length to exceed 254 characters.
 * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.
 */
```

### Implementation background

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` 

It is based on the WHATWG version:

`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 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 `local-part` to exceed 254 characters.
- Disallow total address length to exceed 254 characters.
The differences from the WHATWG version include:
- Disallow "local-part" (the part before the '@' symbol) to begin or end with a period (\.`\).\n- Disallow "local-part" to be longer than 64 characters.
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.
- Disallow `domain` (the part after the `@` symbol) to begin or end with a period (\.`\).
- Disallow `domain` to be longer than 254 characters.

### Validate that the field value is true

```typescript
const control = new FormControl('', Validators.required);
```

```typescript
console.log(control.errors); // {required: true}
```

### Validate against a minimum of 3

```typescript
const control = new FormControl(2, Validators.min(3));
```

```typescript
console.log(control.errors); // {min: {min: 3, actual: 2}}
```

### Validate that the field is non-empty

```typescript
const control = new FormControl('', Validators.required);
```

```typescript
console.log(control.errors); // {required: true}
```

### Validate against a maximum of 15

```typescript
const control = new FormControl(16, Validators.max(15));
```

```typescript
console.log(control.errors); // {max: {max: 15, actual: 16}}
```

### Validate that the field is non-empty

```typescript
const control = new FormControl('', Validators.required);
```

```typescript
console.log(control.errors); // {required: true}
```

### Validate that the field value passes an email validation test

```typescript
const control = new FormControl('', Validators.email);
```

```typescript
console.log(control.errors); // {email: {email: 'test'}
```

### Validate that the field value passes an email validation test

```typescript
const control = new FormControl('', Validators.email);
```

```typescript
console.log(control.errors); // {email: {email: 'test'}
```

### Validate that the field value is true

```typescript
const control = new FormControl('', Validators.required);
```

```typescript
console.log(control.errors); // {required: true}
```

### Validate that the field value passes an email validation test

```typescript
const control = new FormControl('', Validators.email);
```

```typescript
console.log(control.errors); // {email: {email: 'test'}
```

### Validate that the field value is true

```typescript
const control = new FormControl('', Validators.required);
```

```typescript
console.log(control.errors); // {required: true}
```

### Validate that the field value passes an email validation test

```typescript
const control = new FormControl('', Validators.email);
```

```typescript
console.log(control.errors); // {email: {email: 'test'}
```
matches a valid email pattern

```typescript
*\n\nconst control = new FormControl('bad@', Validators.email);
\nreturn EMAIL_REGEXP.test(control.value) ? null : { 'email': true };
*/
```

* @returns An error map with the `email` property
  * if the validation check fails, otherwise `null`.
```typescript
*\n\nValidators.email = function (control) {
  if (isNotEmptyInputValue(control.value)) {
    return null; // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : { 'email': true };
*/
```
* Registers a function called when the control value changes.

```javascript
NumberValueAccessor.prototype.registerOnChange = function (fn) {
    this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };

    NumberValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    }
}
```

* Registers a function called when the control is touched.

```javascript
NumberValueAccessor.prototype.registerOnTouched = function (fn) {
    this.onTouched = fn;
}
```

* Sets the 'disabled' property on the input element.

```javascript
NumberValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

```javascript
RadioControlValueAccessor = /** @class */ (function () {
    function RadioControlValueAccessor(_renderer, _elementRef, _registry, _injector) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._registry = _registry;
        this._injector = _injector;
    }

    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[0]._parent === accessor._control._parent &&
            controlPair[1].name === accessor.name;
    }

    RadioControlRegistry = __decorate([core.Injectable()], RadioControlRegistry);
    return RadioControlRegistry;
});
```

* Class used by Angular to track radio buttons. For internal use only.

```javascript
RadioControlRegistry = /** @class */ (function () {
    function RadioControlRegistry() {
        this._accessors = [];
    }

    RadioControlRegistry.prototype.add = function (control, accessor) {
        this._accessors.push([control, accessor]);
    }

    RadioControlRegistry.prototype.remove = function (accessor) {
        for (var i = this._accessors.length - 1; i >= 0; --i) {
            if (this._accessors[i][1] === accessor) {
                this._accessors.splice(i, 1);
                return;
            }
        }
    }

    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[0]._parent === accessor._control._parent &&
            controlPair[1].name === accessor.name;
    }

    RadioControlRegistry = __decorate([core.Injectable()], RadioControlRegistry);
    return RadioControlRegistry;
});
```
/**
 * @description
 * A lifecycle method called when the directive is initialized. For internal use only.
 */
 RadioControlValueAccessor.prototype.ngOnInit = function () {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
}
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
 RadioControlValueAccessor.prototype.ngOnDestroy = function () {
    this._registry.remove(this);
}
/**
 * @description
 * Sets the 'checked' property value on the radio input element.
 */
 RadioControlValueAccessor.prototype.writeValue = function (value) {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
}
/**
 * @description
 * Registers a function called when the control value changes.
 */
 RadioControlValueAccessor.prototype.registerOnChange = function (fn) {
    var _this = this;
    this._fn = fn;
    this.onChange = function () {
        fn(_this.value);
        _this._registry.select(_this);
    };
}
/**
 * Sets the 'disabled' property on the input element.
 */
 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">");
}
RadioControlValueAccessor = __decorate([core.Directive({
    selector: 'input[type=radio][formControlName], input[type=radio][formControlName], input[type=radio][ngModel]',
    host: { '(change)': 'onChange()', '(blur)': 'onTouched()' },
    providers: [RANGE_VALUE_ACCESSOR]
}),
    __metadata("design:paramtypes", [core.Renderer2, core.ElementRef,
        RadioControlRegistry, core.Injector])
], RadioControlValueAccessor);
return RadioControlValueAccessor;
called when a change or input event occurs on the input element. This onChange = function (_) { };
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
   this.onTouched = function () { };
   /**
    * @description
    * The registered callback function called when a blur event occurs on the input element.
    */
    this.onTouched = function (_) { };
    /**
     * Sets the 'value' property on the input element.
     *
     * @param value The checked value
     */
    RangeValueAccessor.prototype.writeValue = function (value) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
    };
    /**
     * Registers a function called when the control value changes.
     *
     * @param fn The callback function
     */
    RangeValueAccessor.prototype.registerOnChange = function (fn) {
        this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };
    };
    /**
     * Registers a function called when the control is touched.
     *
     * @param fn The callback function
     */
    RangeValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };
    /**
     * Sets the 'disabled' property on the range input element.
     *
     * @param isDisabled The disabled value
     */
    RangeValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };
    RangeValueAccessor = __decorate([core.Directive({
        selector: '[input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',
        host: {
            '(change)': 'onChange($event.target.value)',
            '(input)': 'onChange($event.target.value)',
            '(blur)': 'onTouched()'
        },
        providers: [RANGE_VALUE_ACCESSOR]
    }), __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])], RangeValueAccessor);
    return RangeValueAccessor;
});

/**
 * @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
 */
FormErrorExamples = { formControlName: "\n    <div [formGroup]=\"myGroup\">\n      <input formControlName=\"firstName\">\n    </div>\n
    In your class:\n
    this.myGroup = new FormGroup({\n      firstName: new FormControl()\n    });",
        formGroupName: "\n    <div [formGroup]=\"myGroup\">\n      <div formGroupName=\"person\">\n        <input formControlName=\"firstName\">\n      </div>\n    </div>\n
    In your class:\n
    this.myGroup = new FormGroup({\n       person: new FormGroup({ firstName: new FormControl() })\n    });",
        formArrayName: "\n    <div [formGroup]=\"myGroup\">\n      <div formArrayName=\"cities\">\n        <div *ngFor=\"let city of cityArray.controls; index as i\">\n          <input [formControlName]=\"i\">\n        </div>\n      </div>\n    </div>\n
    In your class:\n
    this.cityArray = new FormArray([new FormControl('SF')]);\n    this.myGroup = new FormGroup({\n      cities: this.cityArray\n    });",
        ngModelGroup: "\n    <form>\n       <div ngModelGroup=\"person\">\n          <input [(ngModel)]=\"person.name\" name=\"firstName\">\n       </div>\n    </form>",
        ngModelWithFormGroup: "\n    <div [formGroup]=\"myGroup\">\n       <input [(ngModel)]=\"showMoreControls\" [(ngModelOptions)]=\"{standalone: true}\">\n    </div>\n
    In your class:\n
    ReactiveErrors = function ReactiveErrors() {};
    ReactiveErrors.controlParentException = function () {
        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).\n
    ReactiveErrors.ngModelGroupException = function () {
        throw new Error("ngModelGroup cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a \"form\" prefix: formGroupName, formArrayName, or formGroup.\n
    Option 1: Update the parent to be formGroupName (reactive form strategy)\n
    Option 2: Use ngModel instead of formControlName (template-driven strategy)\n      \n      ReactiveErrors.missingFormException = function () {
         throw new Error("formGroup expects a
FormGroup instance. Please pass one in.

Example:

```javascript
FormGroup(formControlName)
```
SelectControlValueAccessor = /** @class */ (function () {
    function SelectControlValueAccessor(_renderer, _elementRef) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._optionMap = new Map();
        @description
        * The registered callback function called when a change event occurs on the input element.
        * The registered callback function called when a blur event occurs on the input element.
        * @description
        * The registered callback function called when a change event occurs on the input element.
        * @description
        * The rendered option comparison algorithm for tracking identities when checking for changes.
        * @description
        * Registers a function called when the control value changes.
        * @param fn The callback function
        * @description
        * Registers a function called when the control value changes.
        * @param fn The callback function
        * @description
        * Registers a function called when the control value changes.
        * @param fn The callback function
        * @description
        * Tracks the option comparison algorithm for tracking identities when checking for changes.
        * @description
        * Sets the value of the input element.
        * @param value The checked value
        * @description
        * Registers a function called when the control value changes.
        * @param fn The callback function
        * @description
        * Sets the disabled property on the select input element.
        * @param isDisabled The disabled value
        * @description
        * Marks the option as dynamic, so Angular can be notified when options change.
    }
    Object.defineProperty(SelectControlValueAccessor.prototype, "compareWith", {
        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
    });
    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);
    };
    SelectControlValueAccessor.prototype.registerOnChange = function (fn) {
        var _this = this;
        this.onChange = function (valueString) {
            _this.value = _this._getOptionValue(valueString);
            fn(_this.value);
        };
    };
    SelectControlValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };
    SelectControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };
    SelectControlValueAccessor.prototype._registerOption = function () {
        return (this._idCounter++).toString();
    };
    SelectControlValueAccessor.prototype._getOptionId = function (value) {
        var e_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))
                    return id;
            }
        } finally {
            if (_c && !_c.done &&
                (a = _b.return) && a.call(b);
            )
            try {
                finally {
                    if (e_1) throw e_1.error;
                }
            } finally {
                if (!a) return null;
            }
        }
    };
    SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {
        var id = _extractId(valueString);
        return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
    };
    SelectControlValueAccessor.prototype.registerOnChange = function (fn) {
        var _this = this;
        this.onTouched = function (fn) {
            this.onTouched = fn;
        };
    };
    SelectControlValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };
    SelectControlValueAccessor.prototype.registerOnChange = function (fn) {
        this.onChange = function (valueString) {
            _this.value = _this._getOptionValue(valueString);
            fn(_this.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);
    };
    SelectControlValueAccessor.prototype.registerOnChange = function (fn) {
        var _this = this;
        this.onChange = function (valueString) {
            _this.value = _this._getOptionValue(valueString);
            fn(_this.value);
        };
    };
    SelectControlValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };
    SelectControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };
    SelectControlValueAccessor.prototype._registerOption = function () {
        return (this._idCounter++).toString();
    };
    SelectControlValueAccessor.prototype._getOptionId = function (value) {
        var e_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._compareWithWith(this._optionMap.get(id), value))
                    return id;
            }
        } finally {
            if (_c && !_c.done &&
                (a = _b.return) && a.call(b);
            )
            try {
                finally {
                    if (e_1) throw e_1.error;
                }
            } finally {
                if (!a) return null;
            }
        }
    };
    SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {
        var id = _extractId(valueString);
        return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
    };
    SelectControlValueAccessors = 
    /** *
     * Marks the option as dynamic, so Angular can be notified when options change.
     * @description
     * @see SelectControlValueAccessor
     */
    SelectControlValueAccessors = 
    /** *
     * @ngModule ReactiveFormsModule
     * @ngModule
     */
    SelectControlValueAccessors = 
    /** *
     */
});

Open Source Used In MSX SD-Branch Service Pack 3.9.0  5356
NgSelectOption(_element, _renderer, _select) {
    this._element = _element;
    this._renderer = _renderer;
    this._select = _select;
    if (this._select) {
        this._id = this._select._registerOption();
        Object.defineProperty(NgSelectOption.prototype, "ngValue", {
            /**
             * @description
             * 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._setElementValue(_buildValueString(this.id, value));
                this._select.writeValue(this._select.value);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgSelectOption.prototype, "value", {
            /**
             * @description
             * Tracks simple string values bound to the option element. For objects, use the 'ngValue' input binding.
             */
            set: function (value) {
                this._setElementValue(value);
                if (this._select) this._select.writeValue(this._select.value);
            },
            enumerable: true,
            configurable: true
        });
        /** @internal */
        NgSelectOption.prototype._setElementValue = function (value) {
            this._renderer.setProperty(this._element.nativeElement, 'value', value);
        };
        /**
         * Lifecycle method called before the directive's instance is destroyed. For internal use only.
         */
        NgSelectOption.prototype.ngOnDestroy = function () {
            if (this._select) {
                this._select._optionMap.delete(this.id);
                this._select.writeValue(this._select.value);
            }
        };
    }
}

SELECT_MULTIPLE_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return SelectMultipleControlValueAccessor; }),
    multi: true
};

_SELECT_MULTIPLE_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return SelectMultipleControlValueAccessor; }),
    multi: true
};

function _buildValueString$1(id, value) {
    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$1(valueString) {
    return valueString.split(':')[0];
}

/**
 * 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. The `ControlValueAccessor` interface is used by the `FormControlName` and `NgModel`
 * directives. It provides a way to set and get values for multi-select controls.
 * To use this accessor, you need to inject the `SelectMultipleControlValueAccessor` into your component.
 * 
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */

SelectMultipleControlValueAccessor = ({
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return SelectMultipleControlValueAccessor; }),
    multi: true
});

function _buildValueString$1(id, value) {
    if (id == null) return "" + value;
    if (typeof value === 'string') value = "'" + value + "'";
    if (value &

---

Open Source Used In MSX SD-Branch Service Pack 3.9.0  5357
SelectMultipleControlValueAccessor.prototype.writeValue = function (value) {
  var _this = this;
  this.value = value;
  var optionSelectedStateSetter;
  if (Array.isArray(value)) {
    // convert values to ids
    var ids_1 = value.map(function (v) { return _this._getOptionId(v); });
    optionSelectedStateSetter = function (opt, o) {
      opt._setSelected(ids_1.indexOf(o.toString()) > -1);
    };
  } else {
    optionSelectedStateSetter = function (opt) {
      opt._setSelected(false);
    };
  }

  this.optionMap.forEach(optionSelectedStateSetter);
}

SelectMultipleControlValueAccessor.prototype.registerOnTouched = function (fn) {
  this.onTouched = fn;
};

SelectMultipleControlValueAccessor.prototype.registerOnChange = function (fn) {
  this.onChange = fn;
};

SelectMultipleControlValueAccessor.prototype.registerOnTouched = function (fn) {
  this.onTouched = fn;
};

SelectMultipleControlValueAccessor.prototype.writeValue = function (value) {
  var _this = this;
  this.value = value;
  var optionSelectedStateSetter;
  if (Array.isArray(value)) {
    // convert values to ids
    var ids_1 = value.map(function (v) { return _this._getOptionId(v); });
    optionSelectedStateSetter = function (opt, o) {
      opt._setSelected(ids_1.indexOf(o.toString()) > -1);
    };
  } else {
    optionSelectedStateSetter = function (opt) {
      opt._setSelected(false);
    };
  }

  this.optionMap.forEach(optionSelectedStateSetter);
}

SelectMultipleControlValueAccessor.prototype.registerOnTouched = function (fn) {
  this.onTouched = fn;
};

SelectMultipleControlValueAccessor.prototype.writeValue = function (value) {
  var _this = this;
  this.value = value;
  var optionSelectedStateSetter;
  if (Array.isArray(value)) {
    // convert values to ids
    var ids_1 = value.map(function (v) { return _this._getOptionId(v); });
    optionSelectedStateSetter = function (opt, o) {
      opt._setSelected(ids_1.indexOf(o.toString()) > -1);
    };
  } else {
    optionSelectedStateSetter = function (opt) {
      opt._setSelected(false);
    };
  }

  this.optionMap.forEach(optionSelectedStateSetter);
};
Open Source Used In MSX SD-Branch Service Pack 3.9.0

```typescript
/**
 * @description
 * Marks `<option>` as dynamic, so
 * Angular can be notified when options change.
 * @see `SelectMultipleControlValueAccessor`
 */

var

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", {
            /**
             * @description
             * 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", {
            /**
             * @description
             * 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
        });

        /** @internal */
        NgSelectMultipleOption.prototype._setElementValue = function (value) {
            this._renderer.setProperty(this._element.nativeElement, 'value', value);
        };

        /** @internal */
        NgSelectMultipleOption.prototype._setSelected = function (selected) {
            this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
        };

        /**
         * @description
         * Lifecycle method called before the directive's instance is destroyed. For internal use only.
         */
        NgSelectMultipleOption.prototype.ngOnDestroy = function () {
            if (this._select) {
                this._select._optionMap.delete(this.id);
                this._select.writeValue(this._select.value);

                setUpViewChangePipeline(this._select);
                setUpModelChangePipeline(this._select);

                setUpBlurPipeline(this._select);

                if (this._select.registerOnDisabledChange) {
                    this._select.registerOnDisabledChange(function (isDisabled) {
                        this._select.writeValue(this._select.value);
                    });
                }
            }
        };

        return NgSelectMultipleOption;
    }());

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     */
    function controlPath(name, parent) {
        return __spread(parent.path,
            [name]);
    }

    function setUpControl(control, dir) {
        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(function (isDisabled) {
                dir.valueAccessor.setDisabledState(isDisabled); });
        }

        if (!dir.valueAccessors) {
            _throwError('control', 'No value accessor for form control with');
        }

        control.validator = Validators.compose([control.validator, dir.valueAccessors]);
        control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.valueAccessors]);

        dir.valueAccessors.writeValue(control.value);
        setUpViewChangePipeline(control, dir);
        setUpModelChangePipeline(control, dir);
    }

    function setUpControl(control, dir) {
        if (dir.valueAccessors) {
            _throwError('control', 'Cannot find
control with');
        }

        if (dir.valueAccessors.setDisabledState) {
            control.registerOnDisabledChange(function (isDisabled) {
                dir.valueAccessors.setDisabledState(isDisabled);
            });
        }

        if (control.updateValueAndValidity) {
            _throwError('control', 'No value accessor for form control with');
        }
    }

    function setUpViewChangePipeline(control, dir) {
        if (dir.valueAccessors) {
            _throwError('control', 'Cannot find
control with');
        }

        if (dir.valueAccessors.registerOnValidatorChange) {
            dir.valueAccessors.registerOnValidatorChange(function () { return
        }
    }

    function setUpModelChangePipeline(control, dir) {
        if (dir.valueAccessors) {
            _throwError('control', 'Cannot find
control with');
        }

        if (dir.valueAccessors.registerOnValidatorChange) {
            dir.valueAccessors.registerOnValidatorChange(function () { return
        }
    }

    function setUpBlurPipeline(control, dir) {
        if (dir.valueAccessors) {
            _throwError('control', 'Cannot find
control with');
        }

        if (dir.valueAccessors.registerOnValidatorChange) {
            dir.valueAccessors.registerOnValidatorChange(function () { return
        }
    }
```
dir.valueAccessor.registerOnChange(function () { return _noControlError(dir); });

dir.valueAccessor.registerOnTouched(function () { return _noControlError(dir); });

dir._rawValidators.forEach(function (validator) {
    if (validator.registerOnValidatorChange) {
        validator.registerOnValidatorChange(null);
    }
});

dir._rawAsyncValidators.forEach(function (validator) {
    if (validator.registerOnValidatorChange) {
        validator.registerOnValidatorChange(null);
    }
});

if (control)
    control._clearChangeFns();

function setUpViewChangePipeline(control, dir) {
    dir.valueAccessor.registerOnChange(function (newValue) {
        control._pendingValue = newValue;
        control._pendingChange = true;
        control._pendingDirty = true;
        if (control.updateOn === 'change')
            updateControl(control, dir);
    });

    function setUpBlurPipeline(control, dir) {
        dir.valueAccessor.registerOnTouched(function () {
            control._pendingTouched = true;
            if (control.updateOn === 'blur' && control._pendingChange)
                updateControl(control, dir);
            if (control.updateOn !== 'submit')
                control.markAsTouched();
        });
    }

    function updateControl(control, dir) {
        if (control._pendingDirty)
            control.markAsDirty();
        control.setValue(control._pendingValue, { emitModelToViewChange: false });
        dir.viewToModelUpdate(control._pendingValue);
        control._pendingChange = false;
    }

    function setUpModelChangePipeline(control, dir) {
        control.registerOnChange(function (newValue, emitModelEvent) {
            // control -> view
            dir.valueAccessor.writeValue(newValue);
            // control -> ngModel
            if (emitModelEvent)
                dir.viewToModelUpdate(newValue);
        });
    }

    function setUpFormContainer(control, dir) {
        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) {
        return _throwError(dir, 'There is no FormControl instance attached to form control element with');
    }

    function _throwError(dir, message) {
        var messageEnd;
        if (dir.path.length > 1) {
            messageEnd = "path: '" + dir.path.join(' -> ') + "'";
        }
        else if (dir.path[0]) {
            messageEnd = "name: '" + dir.path + "'";
        }
        else {
            messageEnd = 'unspecified name attribute';
        }
        throw new Error(message + " " + messageEnd);
    }

    function composeValidators(validators) {
        return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
    }

    function composeAsyncValidators(validators) {
        return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : 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)) {
                builtinAccessor = v;
            }
            else {
                if (builtInAccessor)
                    _throwError(dir, 'More than one built-in value accessor matches form control with');
                builtinAccessor = v;
            }
        });
    }

    // TODO: vsavkin remove it once https://github.com/angular/angular/issues/3011 is implemented
    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)) {
                builtinAccessor = v;
            }
            else {
                if (customAccessor)
                    _throwError(dir, 'More than one custom value accessor matches form control with');
                customAccessor = v;
            }
        });
    }
The function that determines the asynchronous validity of this control.

Throws errors if that async validation is occurring and the errors are not yet available for 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 invalid, meaning that an error exists in the input value.

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 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 pending, meaning that async validation is occurring and errors are not yet available for 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 invalid, meaning that an error exists in the input value.

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 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.
true
        };
        /**
         * Empties out the sync
         */
        AbstractControl.prototype.setAsyncValidators = function (newValidator) {
            this.asyncValidator = coerceToAsyncValidator(newValidator);
        };
        /**
         * Sets the async validators that are active on this
         */
        AbstractControl.prototype.setValidators = function (newValidator) {
            this.validator = coerceToValidator(newValidator);
        };
        /**
         * A control is `valid` when its `status` is `VALID`.
         */
        @ see [@link AbstractControl.status]
        /**
         * A control is `invalid` when its `status` is `INVALID`.
         */
        @ see [@link AbstractControl.status]
        /**
         * A control is `pending` when its `status` is `PENDING`.
         */
        @ see [@link AbstractControl.status]
        /**
         * A control is `disabled` when its `status` is `DISABLED`.
         */
        @ see [@link AbstractControl.status]
        /**
         * A control is `dirty` when the user has changed the value
         */
        @ see [@link AbstractControl.status]
        /**
         * True if the control is marked `touched`.
         */
        @ see [@link AbstractControl.status]
        /**
         * True if the control has any status other than `DISABLED`,
         */
        @ see [@link AbstractControl.status]
        /**
         * True if this control is in the process of
         */
        @ see [@link AbstractControl.status]
        /**
         * True if the control is marked `touched` once the user has
         */
        @ see [@link AbstractControl.status]
        /**
         * True if the control has not been marked as touched
         */
        @ see [@link AbstractControl.status]
        /**
         * True if the control is marked `touched` once the user has
         */
        @ see [@link AbstractControl.status]
        /**
         * True if the control is marked `touched` once the user has
         */
        @ see [@link AbstractControl.status]
When you add or remove a validator at run time, you must call

`updateValueAndValidity()` for the new validation to take effect.

AbstractControl.prototype.clearAsyncValidators = function () { this.asyncValidator = null; };

Emptys out the async validator list.

When you add or remove a validator at run time, you must call

`updateValueAndValidity()` for the new validation to take effect.

AbstractControl.prototype.clearAsyncValidators = function () { this.asyncValidator = null; };

Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.

When true, marks all direct ancestors. Default is false.

AbstractControl.prototype.markAsPristine = function (opts) {
  if (opts === void 0) { opts = {}; }
  this.pristine = true;
  this._pendingDirty = false;
  this._forEachChild(function (control) {
    control.markAsPristine({ onlySelf: true });
    if (this._parent && !opts.onlySelf) {
      this._parent.markAsTouched(opts);
    }
  });
};

Marks the control as `dirty`. A control becomes dirty when

the control's value is changed through the UI; compare `markAsTouched`

A control.

AbstractControl.prototype.markAsDirty = function (opts) {
  if (opts === void 0) { opts = {}; }
  this.touched = false;
  this._pendingTouched = false;
  this._forEachChild(function (control) {
    control.markAsDirty(opts);
    if (this._parent && !opts.onlySelf) {
      this._parent.markAsDirty({ onlySelf: false });
    }
  });
};

Marks the control as `untouched`.

Marks the control and all its descendant controls as `touched`.

Marks the control as `dirty`.

Marks the control as `touched`.

`markAsPristine()`

`markAsDirty()`

`markAsUntouched()`

`markAsDirty()`

`markAsUntouched()`

`markAsTouched()`

`markAsPristine()`

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.

* `emitEvent`:
  * 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.

* `markAsDirty()`

* `markAsUntouched()`

* `markAsTouched()`

* `markAsPristine()`

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.

* `emitEvent`:
  * 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.

* `markAsDirty()`

* `markAsUntouched()`

* `markAsTouched()`

* `markAsPristine()`

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.

* `emitEvent`:
  * 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.

* `markAsDirty()`

* `markAsUntouched()`

* `markAsTouched()`

* `markAsPristine()`

Configuration options that determine how the control propagates changes and emits events after marking is applied.

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* `emitEvent`:
  * 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.

* `markAsDirty()`

* `markAsUntouched()`

* `markAsTouched()`

* `markAsPristine()`

Configuration options that determine how the control propagates changes and emits events after marking is applied.

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* `emitEvent`:
  * 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.

* `markAsDirty()`

* `markAsUntouched()`

* `markAsTouched()`

* `markAsPristine()`

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.

* `emitEvent`:
  * 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.

* `markAsDirty()`

* `markAsUntouched()`

* `markAsTouched()`

* `markAsPristine()`

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.
**Open Source Used In MSX SD-Branch Service Pack 3.9.0**

```javascript
this._cancelExistingSubscription();
                this.errors = this._runValidator();
                this.status = this._setInitialStatus();
            this._updateValue();
            if (this.enabled) {
                AbstractControl.prototype.updateValueAndValidity = function (opts) {
                    if (opts === void 0) { opts = {}; }
                }
                this._forEachChild(function (control) { control.enable(__assign(__assign({}, opts), { onlySelf: true })); });
            }
            this._updateAncestors(__assign(__assign({}, opts), { skipPristineCheck: skipPristineCheck }));
        };
        /**
         * Enables the control. This means the control is included in validation
         * checks and validation strictly marks the control as `valid` or `invalid` based
         * on the value. All children are also enabled.
         *
         * By default, if the control has children, all children are enabled. * @param opts
         * Configuration options determine how the control propagates changes and emits
         * events when marked as untouched. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
         * updates and validity checks are applied. * marks all direct ancestors. Default is false. * marks all direct ancestors.
         * If the control has children, all children are also disabled.
         * `statusChanges` and
         * `valueChanges` * observables emit events with the latest status and value when the control is disabled.
         *
         * When false, no events are emitted. * marks all direct ancestors. Default is false.
         * * `onlySelf`: When true, mark only this control. When false or not supplied,
* @returns whether the

* `street'`

* and the current control.

* `address.street'`

* If

* `address', 'street')` * 1. A period-delimited list of control names in one string, e.g. `'address.street'`

* It can be

* `form = new FormGroup({

* `street'`.

* `street'` * 1. A period-delimited list of control names in one string, e.g. `'address.street'`

* If

* `form = new FormGroup({

* `street'`.

* `street'` * 1. A period-delimited list of control names in one string, e.g. `'address.street'`
given error is present in the control at the given path. */
        AbstractControl.prototype.hasError = function (errorCode, path) { return !!this.getError(errorCode, path); };
        Object.defineProperty(AbstractControl.prototype, "/^root\"., { 
        get: function () { var x = this;
            while (x._parent) { x = x._parent; }
            return x; } });
        enumerable: true, configurable: true }); } }); /** @internal */
AbstractControl.prototype._updateControlsErrors = function (emitEvent) { return this._calculateStatus(); if (emitEvent) { this.statusChanges.emit(this.status); } } /** @internal */
AbstractControl.prototype._initObservables = function () { this.valueChanges = new core.EventEmitter(); this.statusChanges = new core.EventEmitter(); } /** @internal */
AbstractControl.prototype._calculateStatus = function () { return this._allControlsDisabled() ? DISABLED : 
AbstractControl.prototype._anyControlsHaveStatus(INVALID) ? return INVALID : if (this._anyControlsHaveStatus(PENDING)) return PENDING; if (this.errors) return INVALID; if (this._anyControlsHaveStatus(INVALID)) return INVALID; if (this.errors) return INVALID; 
AbstractControl.prototype._anyControlsDirty = function (control) { return control.status === status; }; } /** @internal */
AbstractControl.prototype._anyControlsTouched = function (opts) { if (opts === void 0) { opts = {}; } this.touched = this._anyControlsTouched(); if (this.parent && !opts.onlySelf) { this._parent._updateTouched(opts); } } /** @internal */
AbstractControl.prototype._setUpdateStrategy = function (opts) { if (isOptionsObj(opts) && opts.updateOn != null) { this._updateOn = opts.updateOn; } } /** @internal */
AbstractControl.prototype._parentMarkedDirty = function (onlySelf) { return this._parent && this._parent.dirty; } return !onlySelf && this._parent.dirty && !this._parent._anyControlsDirty(); } /** @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._setUpdateStrategy = function (opts) { if (isOptionsObj(opts) && opts.updateOn != null) { this._updateOn = opts.updateOn; } } /** @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._setUpdateStrategy = function (opts) { if (isOptionsObj(opts) && opts.updateOn != null) { this._updateOn = opts.updateOn; } } /** @internal */
AbstractControl.prototype._isBoxedValue = function (formState) { return typeof formState === 'object' && formState !== null && Object.keys(formState).length === 2 && 'value' in formState && 'disabled' in formState; }
following example initializes the control using an options object.

```ts
const control = new FormControl('', {
  validators: [Validators.required],
  asyncValidators: [myAsyncValidator]
});
```

### Initialize a control
- To initialize a control, you can use the `constructor` method.

```ts
function FormControl(formState, validatorOrOpts, asyncValidator) {
  if (formState === void 0) { formState = null; }
  var _this = _super.call(this, coerceToValidator(validatorOrOpts),
    asyncValidator); // `Drew'
  _this._initObservables();
  return _this;
}
```

### Change the control value
- You can change the value of a control using the `setValue` method.

```ts
control.setValue('Nancy');
```

### Reset the control
- The `reset` method resets the control back to its initial value and disabled state.

```ts
control.reset();
```

### Reset the control back to an initial value and disabled state
- You can reset the control back to its initial value and disabled state using the `resetControl` method.

```ts
control.reset({ value: 'Drew', disabled: true });
```

### Configure the control to update on a submit event
- You can configure the control to update on a submit event by setting the `updateOn` option to `'submit'`.

```ts
const control = new FormControl('', { updateOn: 'submit' });
```

### Update the control value and validity
- You can update the control value and validity using the `updateValueAndValidity` method.

```ts
control.updateValueAndValidity();
```

### Use multiple validators
- You can use multiple validators for the control.

```ts
const control = new FormControl('', [
  Validators.required,
  Validators.pattern(/^[A-Za-z]+$/)
]);
```

### Use async validators
- You can use async validators for the control.

```ts
const control = new FormControl('', { asyncValidators: [myAsyncValidator] });
```

### Use a custom status provider
- You can use a custom status provider for the control.

```ts
const control = new FormControl('', { statusChange: myStatusProvider });
```

### Use a custom value provider
- You can use a custom value provider for the control.

```ts
const control = new FormControl('', { valueChange: myValueProvider });
```

### Use a custom update strategy
- You can use a custom update strategy for the control.

```ts
const control = new FormControl('', { updateStrategy: myUpdateStrategy });
```

### Use a custom form state
- You can use a custom form state for the control.

```ts
const control = new FormControl('', { formState: myFormState });
```

---

Open Source Used in MSX SD-Branch Service Pack 3.9.0 5367
**### Set the updateOn property for all controls in a form group**

Like `FormControl` instances, you choose to pass in validators and async validators as part of an options object.

```
const form = new FormGroup({
  password: new FormControl('')
});

// Validators can be added to a form group.
passwordMatchValidator);  

function passwordMatchValidator(g: FormGroup) {
    return g.get('password').value === g.get('passwordConfirm').value
        ? null : {'mismatch': true};
}
```
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.

```
valor
const c = new FormGroup(
  { one: new FormControl() },
  [ @publicApi var FormGroup = */
    @class *]
  function _super) { _extends(FormGroup, _super); } /* */
  function _this = _super.call(this, coerceToValidator(validatorOrOpts), coerceToAsyncValidator(validatorOrOpts)) || this;
  this._controls = controls;
  this._initObservables();
  _this._setUpStrategy(validatorOrOpts);
  _this._setUpControls();
  _this.updateValueAndValidity(
    { onlySelf: true, emitEvent: false });
  return this;
} /* */

* This method does not update the value or
  validity of the control.

* Use `{ @link FormGroup#addControl addControl}` instead.
* @param name The control name to add to the collection
  * @param control Provides the control for the given
  name
  * FormGroup.prototype.registerControl = function (name, control) {
    if (this.controls[name]) return this.controls[name];
    this.controls[name] = control;
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
    return control;
  } /* */
  * Add a control to this group.
  * This method also updates the value and validity of the control.

* @param control The control name to remove from the collection
  * @param name The control name to replace in the collection

* @param control Provides the control for the given name
  * FormGroup.prototype.addControl = function (name, control) {
    this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  } /* */
  * Add a control to this group.

* @param name The control name to register in the collection
  * @param control Provides the control for the given name

* @param control Provides the control for the given name
  * FormGroup.prototype.setControl = function (name, control) {
    if (this.controls[name])
      return this.controls[name];
    this.controls[name] = control;
    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

* @param control The control name to check for existence in the collection
  * @returns false for disabled controls, true otherwise.

* FormGroup.prototype.contains = function (controlName) {
  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.

* @usageNotes */
/*
  * Set the complete value for the form group

* const form = new FormGroup(
  { first: new FormControl(),
    last: new FormControl() });

* console.log(form.value);   // {first: null, last: null}

* @throws When strict checks fail, such as setting the value of a control
  * that doesn't exist or if you exclude a value of a control that does exist.

* @param value The new value

* @throws When strict checks fail, such as setting the value of a control
  * that
  * doesn't exist or if you exclude a value of a control that does exist.

* The
configuration options are passed to the `{@link AbstractControl#updateValueAndValidity method}`. When false, each change only affects this control, and not its parent. Default is `false`. * `onlySelf`: 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. 

```
FormGroup.prototype.setValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {};
        this._checkAllValuesPresent(value);
        Object.keys(value).forEach(function (name) {
            if (_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. It accepts both super-sets and sub-sets of the group without throwing an error. */
    /* */
    /* console.log(this.form.get('first').status);  // 'DISABLED'
    */
    FormGroup.prototype.reset = function (value, options) {
        if (value === void 0) { value = {};
            if (options === void 0) { options = {};
                Object.keys(value).forEach(function (name) {
                    if (_this.controls[name]) {
                        _this.controls[name].reset(value[name], { onlySelf: true, emitEvent: options.emitEvent });
                    }
                });
                this.updateValueAndValidity(options);
            };
            this._forEachChild(function (control, name) {
                control.reset(value[name], { onlySelf: true, emitEvent: options.emitEvent });
            });
            this.updateValueAndValidity(options);
        };

        /* */
        /* const form = new FormGroup({
        *   first: new FormControl('first name'),
        *   last: new FormControl('last name')
        * });
        */
        /* console.log(form.value);  // {first: 'name', last: 'last name'}
        */
        /* form.reset({
        *   first: {value: 'name', disabled: true},
        *   last: {value: 'last name'}
        * });
        */
        /* console.log(this.form.get('first').status); // 'DISABLED'
        */
        /* FormGroup.prototype.reset = function (value, options) {
        */
    };
```

---

Open Source Used In MSX SD-Branch Service Pack 3.9.0 5370
You include array-level validators and async validators. These come in handy when you want to perform
```

### Create a form array with array-level validators

```new FormControl('Drew'),  ```

### Create an array of form controls

`FormControl`, `FormGroup` 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 the controls in a `FormArray` is invalid, the entire array becomes invalid.

The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`.

The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`.

There are no form controls registered with this group yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).

If one of the controls in a `FormArray` is invalid, the entire array becomes invalid.

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 arg

* respectively, or together as part of an options object.

* 

* Variable 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

* 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 has explicitly specified a different `updateOn` value.

* const arr = new FormArray([new FormControl(), 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

* in `FormArray` itself. 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.

* @param lifecycleHandler 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 function or array of async validator functions

* Function FormArray(controls, validatorOrOpts, asyncValidator) { 

* var this = super.call(this, 

* coercToValidator(validatorOrOpts), coercToAsyncValidator(asyncValidator, validatorOrOpts));

* } this;

* 

* this._setUpControls();

* this._initObservables();

* this._setUpUpdateStrategy(validatorOrOpts);

* } } 

* return _this;

* } 

* @param index Index in the array to retrieve the control

* FormArray.prototype.at = function (index) {

* return this.controls[index]; 

* } 

* Insert a new `AbstractControl` at the given `index` in the array.

* this.controls.push(control); 

* } 

* Insert a new `AbstractControl` at the end of the array.

* } 

* Remove the control at the given `index` in the array.

* } 

* Replace an existing control.

* FormArray.prototype.removeAt = function (index) { 

* this.controls.splice(index, 1);

* }. 

* 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

* * @param coercion

* * 

*恒
FormArray.prototype.reset = function (value, options) {
    if (value === void 0) { value = []; }
    value.forEach(function (newValue, index) {
        var _this = this;
        if (options === void 0) { options = {}; }
        this._checkAllValuesPresent(value);
        var _this = this;
        this._forEachChild(function (control, index) {
            _this.at(index).reset(newValue, { onlySelf: true, emitEvent: options.emitEvent });
        });
        this.updateValueAndValidity(options);
    });
}

FormArray.prototype.patchValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    value.forEach(function (newValue, index) {
        _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity(options);
}

FormArray.prototype.setValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    value.forEach(function (newValue, index) {
        _this.at(index).setValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity(options);
}

* Emits events after the value changes
* `onlySelf`: When true, each change only affects this control, and not its parent. Default 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
  * updateValueAndValidity} method.

FormArray.prototype.reset = function (value, options) {
    if (value === void 0) { value = []; }
    value.forEach(function (newValue, index) {
        _this.at(index).reset(newValue, { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity(options);
}

FormArray.prototype.patchValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    value.forEach(function (newValue, index) {
        _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity(options);
}

FormArray.prototype.setValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    this._checkAllValuesPresent(value);
    value.forEach(function (newValue, index) {
        _this.at(index).setValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity(options);
}
As soon as you import the `FormsModule`, this directive becomes active by default on all `<form>` tags.

level `FormGroup` instance and binds it to a form to track aggregate form value and validation status.

```javascript
{ 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.
 *
 * 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
 */
var formDirectiveProvider = {
    provide:
    ControlContainer,
    useExisting: core.forwardRef(function () { return NgForm; })
};
var 0 = function ()
```
You don't need to add a special selector. You optionally export the directive into a local template variable using `ngForm` as the key. This is optional, but useful. Many properties from the underlying `FormGroup` instance are duplicated on the directive itself, so a reference to it gives you access to the aggregate value and validity status of the form, as well as user interaction properties like `dirty` and `touched`. To register child controls with the form, use `NgModel` with a `name` attribute. 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, 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 wouldn't refrain from using the `formGroup` directive.

```typescript
var container = _this._findContainer(dir.path);

NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        list of directives.
    });
}

Object.defineProperty(NgForm.prototype, "controls", {
    /**
     * @description
     * Returns a map of the controls in this group.
     */
    get: function () { return _this.form.controls; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgForm.prototype, "path", {
    /**
     * Returns an array representing the path to this group.
     */
    get: function () { return _this.form.path; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgForm.prototype, "controlsValues", {
    /**
     * Returns a map of the controls in this group.
     */
    get: function () { return _this.form.controls.values; },
    enumerable: true,
    configurable: true
});
```
Open Source Used In MSX SD-Branch Service Pack 3.9.0

```typescript
NgForm.prototype.getControl = function(dir) {
    return this.form.get(dir.path);
};
/**
 * @description
 * Retrieves the `FormControl` instance from the provided `NgModel` directive.
 * @param dir The `NgModel` directive instance.
 * @returns the `FormControl` instance from the internal list of directives.
 */
NgForm.prototype.getControl = function(dir) {
    return this.form.get(dir.path);
};
/**
 * @description
 * Removes the `NgModel` instance from the internal list of directives.
 * @param dir The `NgModel` directive instance.
 * @returns true if the `NgModel` instance was removed, false otherwise.
 */
NgForm.prototype.removeControl = function(dir) {
    var _this = this;
    resolvedPromise.then(function() {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
            removeDir(_this._directives, dir);
        }
    });
    /**
     * @description
     * Removes the `NgModelGroup` instance from the form.
     * @param dir The `NgModelGroup` directive instance.
     * @param group The `NgModelGroup` group.
     * @returns true if the `NgModelGroup` instance was removed, false otherwise.
     */
    NgForm.prototype.removeFormGroup = function(dir) {
        var _this = this;
        resolvedPromise.then(function() {
            var container = _this._findContainer(dir.path);
            if (container) {
                var ctrl = _this.form.get(dir.path);
                var group = new FormGroup({});
                setUpFormContainer(group, dir);
                container.registerControl(dir.name, group);
                group.updateValueAndValidity({ emitEvent: false });
            }
        });
    };
    /**
     * @description
     * Gets the `FormGroup` for a provided `NgModelGroup` directive instance.
     * @param dir The `NgModelGroup` directive instance.
     * @returns the `FormGroup` instance.
     */
    NgForm.prototype.getFormGroup = function(dir) { return this.form.get(dir.path); };
    /**
     * @description
     * Adds a new `NgModelGroup` directive instance to the form.
     * @param dir The `NgModelGroup` directive instance.
     * @param group The `NgModelGroup` group.
     * @returns true if the `NgModelGroup` instance was added, false otherwise.
     */
    NgForm.prototype.addFormGroup = function(dir) {
        var _this = this;
        resolvedPromise.then(function() {
            var container = _this._findContainer(dir.path);
            if (container) {
                container.registerControl(dir.name, group);
                setUpFormContainer(group, dir);
                container.registerControl(dir.name, group);
            }
        });
    };
    /**
     * @description
     * Gets the `FormGroup` for a provided `NgModelGroup` directive instance.
     * @param dir The `NgModelGroup` directive instance.
     * @returns the `FormGroup` instance.
     */
    NgForm.prototype.getFormGroup = function(dir) { return this.form.get(dir.path); };
```
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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 base class for code shared between the `NgModelGroup` and `FormGroupName` directives.
  * \n  * \n  * var AbstractFormGroupDirective = /** @class */ (function (_super) { 
    /**
     * @description
     * A base class for code shared between the `NgModelGroup` and `FormGroupName` directives.
     *
     * @publicApi
     */
    var AbstractFormGroupDirective = /** @class */ (function (_super) {
        function AbstractFormGroupDirective() {
            return _super !== null && _super.apply(this, arguments) || 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 () {
            this._checkParentType();
            this.formDirective.addFormGroup(this);
        };
        /**
         * @description
         * An internal callback method triggered before the instance is destroyed.
         * Removes the group from its parent group.
         */
        AbstractFormGroupDirective.prototype.ngOnDestroy = function () {
            if (this.formDirective) {
                this.formDirective.removeFormGroup(this);
            }
        };
        Object.defineProperty(AbstractFormGroupDirective.prototype, "control", {
            /**
             * @description
             * The `FormGroup` bound to this directive.
             */
            get: function () { return this.formDirective.getFormGroup(this); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(AbstractFormGroupDirective.prototype, "path", {
            /**
             * @description
             * The path to this group from the top-level directive.
             */
            get: function () {
                return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(AbstractFormGroupDirective.prototype, "formDirective", {
            /**
             * @description
             * The top-level directive for this group if present, otherwise null.
             */
            get: function () { return this._parent ? this._parent.formDirective : null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {
            /**
             * The synchronous validators registered with this group.
             */
            get: function () { return composeValidators(this._validators); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(AbstractFormGroupDirective.prototype, "asyncValidator", {
            /**
             * The async validators registered with this group.
             */
            get: function () { return composeAsyncValidators(this._asyncValidators); },
            enumerable: true,
            configurable: true
        });
        /** @internal */
        AbstractFormGroupDirective.prototype._checkParentType
        = function () { };
    })(ControlContainer));

    /**
     * @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
     */
    var TemplateDrivenErrors = /** @class */ (function () {
        function TemplateDrivenErrors() {
        }
        TemplateDrivenErrors.modelParentException = function () {
            throw new Error("ngModel cannot be used to register form controls with a parent formGroup directive. Try using \n            formGroup's partner directive \"formControlName\" 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.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 formGroupName instead of ngModel (reactive strategy):\n\n            Example:\n\n            \" + FormErrorExamples.formGroupName + \"\n\n            Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n            Example:\n\n            \" + FormErrorExamples.ngModelGroup);
        };
        TemplateDrivenErrors.modelGroupParentException = function () {
            throw new Error("If ngModel is used within a form tag, either the name attribute must be set or the form\n            control must be defined as 'standalone' in ngModelOptions:\n\n            Example 1: \n\n            \" + FormErrorExamples.ngModelWithFormGroup);
        };
        return TemplateDrivenErrors;
    }());

    Object.defineProperty(AbstractFormGroupDirective.prototype, "\"control\"", { 
        /**
         * @description
         * The `FormGroup` bound to this directive.
         */
        get: function () { return this.formDirective.getFormGroup(this); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractFormGroupDirective.prototype, "\"path\"", { 
        /**
         * @description
         * The path to this group from the top-level directive.
         */
        get: function () {
            return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractFormGroupDirective.prototype, "\"formDirective\"", { 
        /**
         * @description
         * The top-level directive for this group if present, otherwise null.
         */
        get: function () { return this._parent ? this._parent.formDirective : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {
        /**
         * The synchronous validators registered with this group.
         */
        get: function () { return composeValidators(this._validators); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractFormGroupDirective.prototype, "asyncValidator", {
        /**
         * The async validators registered with this group.
         */
        get: function () { return composeAsyncValidators(this._asyncValidators); },
        enumerable: true,
        configurable: true
    });
    /** @internal */
    AbstractFormGroupDirective.prototype._checkParentType
    = function () { };
    return AbstractFormGroupDirective;
});

    /**
     * @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
     */
    var TemplateDrivenErrors = /** @class */ (function () {
        function TemplateDrivenErrors() {
        }
        TemplateDrivenErrors.modelParentException = function () {
            throw new Error("\n      ngModel cannot be
      used to register form controls with a parent formGroup directive.  Try using\n      formGroup's partner directive \"formControlName\" 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.formGroupNameException = function () {
            throw new Error("\n      ngModel cannot
      be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use
      formGroupName instead of ngModel (reactive strategy):\n\n      Example:\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      Example:\n\n      " + FormErrorExamples.ngModelGroup);
        };
        TemplateDrivenErrors.modelGroupParentException = function () {
            throw new Error("If ngModel is used within a form tag, either the name attribute must be set or the form\n            control must be defined as 'standalone' in ngModelOptions:\n\n            Example 1: \n\n            " + FormErrorExamples.ngModelWithFormGroup);
        };
        return TemplateDrivenErrors;
    }());
ngModelGroup cannot be used with a parent formGroup directive. Option 1: Use formGroupName instead of ngModelGroup (reactive strategy): 
```javascript
  " + FormErrorExamples.formGroupName + 
```

Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy): 
```javascript
  " + FormErrorExamples.ngModelGroup + 
```
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="ngModel1"`).

* 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` * @usageNotes
  * ### Using ngModel on a standalone control

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  * * @see `RadioControlValueAccessor` * @see
  `SelectControlValueAccessor` * @usageNotes
  * ### Using ngModel on a standalone control

  * The following examples show a simple standalone control using `ngModel`.
If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:

```html
<form ngNativeValidate></form>
```

The following examples show how to register a standalone `FormControl` instance to a form control element:

```ts
this.control.setValue('some value');
```

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. In addition, this pattern mixes template-driven and reactive forms strategies, which 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 modify 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):

```ts
this.control.setValue('some value');
```

* After (choice 2 - use template-driven forms):

```html
<input [(ngModel)]="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:

```ts
import Config from 'reactive-forms';
```

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.
function FormControlDirective(validators, asyncValidators, valueAccessors, _ngModelWarningConfig) {
  var _this = super.call(this) || this;
  _this._ngModelWarningConfig = _ngModelWarningConfig;
  /**
   * @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 'FormControlDirective' instance. Used to support warning config of 'always'.
   */
  _this._ngModelWarningSent = false;
  _this._rawValidators = validators || [];
  _this._rawAsyncValidators = asyncValidators || [];
  _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
  return _this;
}

FormControlDirective = FormControlDirective;

Object.defineProperty(FormControlDirective.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
});

/**
 * @description
 * A lifecycle method called when the directive's inputs change. For internal use
 * only.
 */
FormControlDirective.prototype.ngOnChanges = function(changes) {
  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);
    this.viewModel = this.model;
  }
}

Object.defineProperty(FormControlDirective.prototype, "path", {
  /**
   * @description
   * Returns an array that represents the path from the top-level form to this
   * control.
   */
  get: function() {
    return [];
  },
  enumerable: true,
  configurable: true
});

Object.defineProperty(FormControlDirective.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(FormControlDirective.prototype, "asyncValidator", {
  /**
   * Async validator function composed of all the async validators registered with this
   * directive.
   */
  get: function() {
    return composeAsyncValidators(this._rawAsyncValidators);
  },
  enumerable: true,
  configurable: true
});

Object.defineProperty(FormControlDirective.prototype, "control", {
  /**
   * The `FormControl` bound to this directive.
   */
  get: function() { return this.form; },
  enumerable: true,
  configurable: true
});

/**
 * Sets the new value for the view model and emits an 'ngModelChange' event.
 */
FormControlDirective.prototype.viewToModelUpdate = function(newValue) {
  this.viewModel = newValue;
  this.update.emit(newValue);
}

FormControlDirective.prototype._isControlChanged = function(changes) {
  return changes.hasOwnProperty('form');
};

__decorate([
  core.Input('formControl'),
  __metadata("design:type", FormControl)
], FormControlDirective.prototype, "form", void 0);

__decorate([
  core.Input('disabled'),
  __metadata("design:type", Boolean),
  __metadata("design:paramtypes", [Boolean])
], FormControlDirective.prototype, "isDisabled", null);

__decorate([
  core.Output('ngModelChange'),
  __metadata("design:type", Object)
], FormControlDirective.prototype, "update", void 0);

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FormControlDirective = FormControlDirective_1 = __decorate(
    [core.Directive({ selector: '[formControl]', providers: [FormControlBinding$1, exportAs: 'ngForm'] }),
     __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
     __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
     __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
     __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
    FormControlDirective);
return FormControlDirective;
    }

    /**
     * @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
     */
    var formDirectiveProvider$1 = {
        provide: ControlContainer,
        useExisting: core.forwardRef(function () { return 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`, and `FormArray` instances to child `FormControlName`, `FormGroupName`, and `FormArrayName` directives.
     *
     * @see [Reactive Forms Guide](guide/reactive-forms)
     * @see `AbstractControl`
     *
     * ### Register Form Group
     *
     * 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/ts/simpleFormGroup/simple_form_group_example.ts region='Component'
     * ```
     *
     * @ngModule ReactiveFormsModule
     * @publicApi
     */
    var FormGroupDirective = /** @class */ (function (_super) {
        __extends(FormGroupDirective, _super);
        function FormGroupDirective(_validators, _asyncValidators) {
            var _this = _super.call(this) || this;

            _this._validators = _validators;
            _this._asyncValidators = _asyncValidators;
            /**
             * Reports whether the form submission has been triggered.
             */
            _this.submitted = false;
            /**
             * Tracks the list of added `FormControlName` instances
             */
            _this.directives = [];
            /**
             * Tracks the `FormGroup` bound to this directive.
             */
            _this.form = null;
            /**
             * Emits an event when the form submission has been triggered.
             */
            _this.ngSubmit = new core.EventEmitter();
            return _this;
        }

        FormGroupDirective.prototype.ngOnChanges = function (changes) {
            this._checkFormPresent();
            if (changes.hasOwnProperty('form')) {
                this._updateValidators();
                this._updateDomValue();
                this._updateRegistrations();
            }
        };

        Object.defineProperty(FormGroupDirective.prototype, "formDirective", {
            /**
             * Returns this directive's instance.
             */
            get: function () { return this; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormGroupDirective.prototype, "control", {
            /**
             * Returns the `FormGroup` bound to this directive.
             */
            get: function () { return this.form; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormGroupDirective.prototype, "path", {
            /**
             * Returns an array representing the path to this group.
             */
            get: function () { return []; },
            enumerable: true,
            configurable: true
        });

        FormGroupDirective.prototype.ngOnChanges = function (changes) {
            this._checkFormPresent();
            if (changes.hasOwnProperty('form')) {
                this._updateValidators();
                this._updateDomValue();
                this._updateRegistrations();
            }
        };

        Object.defineProperty(FormGroupDirective.prototype, "control", {
            /**
             * Returns the `FormGroup` bound to this directive.
             */
            get: function () { return this.form; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormGroupDirective.prototype, "path", {
            /**
             * Returns an array representing the path to this group.
             */
            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 });
        };

        FormGroupDirective.prototype.get = function () { return this; };

        Object.defineProperty(FormGroupDirective.prototype, "control", {
            /**
             * Returns the `FormGroup` bound to this directive.
             */
            get: function () { return this.form; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormGroupDirective.prototype, "path", {
            /**
             * Returns an array representing the path to this group.
             */
            get: function () { return []; },
            enumerable: true,
            configurable: true
        });

        FormGroupDirective.prototype.addControl = function (dir) {
            var ctrl = this.form.get(dir.path);
            setUpControl(ctrl, dir);
        };

        FormGroupDirective.prototype.get = function () { return this; };

        this.directives.push(dir);
        return dir;
    };

    FormGroupDirective.formDirectiveProvider$1 = formDirectiveProvider$1;

    export {FormGroupDirective as formGroupDirective};
FormGroupDirective.prototype.getControl = function (dir) {
    return this.form.get(dir.path);
};

/**
 * @description
 * Removes the `FormControlName` instance from the internal list of directives
 * @param dir The `FormControlName` directive instance.
 */
FormGroupDirective.prototype.removeControl = function (dir) {
    removeDir(this.directives, dir);
};

/**
 * Adds a new `FormArrayName` directive instance to the form.
 * @param dir The `FormArrayName` directive instance.
 */
FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.setValueAndValidity({ emitEvent: false });
};

/**
 * No-op method to remove the form group.
 * @param dir The `FormGroupName` directive instance.
 */
FormGroupDirective.prototype.removeFormGroup = function (dir) { };

/**
 * Retrieves the `FormGroup` for a provided `FormGroupName` directive instance.
 * @param dir The `FormGroupName` directive instance.
 */
FormGroupDirective.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); };

/**
 * Adds a new `FormArrayName` directive instance to the form.
 * @param dir The `FormArrayName` directive instance.
 */
FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.setValueAndValidity({ emitEvent: false });
};

/**
 * No-op method to remove the form array.
 * @param dir The `FormArrayName` directive instance.
 */
FormGroupDirective.prototype.removeFormArray = function (dir) { };

/**
 * @description
 * Retrieves the `FormArray` for a provided `FormArrayName` directive instance.
 * @param dir The `FormArrayName` directive instance.
 */
FormGroupDirective.prototype.getFormArray = function (dir) { return this.form.get(dir.path); };

/**
 * Sets the new value for the provided `FormControlName` directive.
 * @param dir The `FormControlName` directive instance.
 * @param value The new value for the directive's control.
 */
FormGroupDirective.prototype.updateModel = function (dir, value) {
    var ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
};

/**
 * @description
 * Method called with the `submit` event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the `submit` event as its payload.
 * @param $event The `submit` event object
 */
FormGroupDirective.prototype.onSubmit = function ($event) {
    this.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.
 */
FormGroupDirective.prototype.onReset = function () { this.resetForm(); };

/**
 * Resets the form to an initial value and resets its submitted status.
 * @param value The new value for the form.
 */
FormGroupDirective.prototype.resetForm = function (value) {
    if (value === void 0) { value = undefined; }
    this.form.reset(value);
    this.submitted = false;
};

/** @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.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._checkFormPresent = function () {
    if (!this.form) {
        ReactiveErrors.missingFormException();
    }
};

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._updateDomValue = function () {
    var _this = this;
    this._oldForm._registerOnCollectionChange(function () { return _this._updateDomValue(); });
    if (this._oldForm)
        this._oldForm._registerOnCollectionChange(function () { });
    this._oldForm = this.form;
    this._oldForm._updateDomValue();
    this._oldForm._updateValidations();
    this.form.validator = Validators.compose([this.form.validator, sync]);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, async]);
};

FormGroupDirective.prototype._checkFormPresent = function () {
    if (!this.form) {
        ReactiveErrors.missingFormException();
    }
}

FormGroupDirective.prototype._decorate = function (core) {
    this._decorate(core.Input('formGroup'),

FormGroupDirective.prototype, `\`ngSubmit\`, void 0);`\n    core.Directive(`\n        selector: `[formGroup]`, `\n        providers: [formDirectiveProvider$1],`\n    host: `{ `submit`: `onSubmit($event)`, `reset`: `onReset()` },`\n    exportAs: `ngForm\n`);`\n`__param(0, core.Optional()), `\n    `__param(0, core.Self()), `\n    `__param(0, core.Inject(NG_VALIDATORS)),`\n    `__param(1, core.Optional()), `\n    `__param(1, core.Self()), `\n    `__param(1, core.Inject(NG_ASYNC_VALIDATORS)),`\n    `__metadata(`\n        `design:paramtypes\n`, `\n        `Array, Array `\n    ), FormGroupDirective);`\n    return FormGroupDirective(`\n        `ControlContainer`);`\n`/**`\n* @license
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* found in the LICENSE file at https://angular.io/license
*/
``
function FormArrayName(parent, validators, asyncValidators) {
    var this = super.call(this) || this;
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
    return this;
}
/**
 * @description
 * A lifecycle method called when the directive's inputs are initialized. For internal use only.
 * @throws
 * If the directive does not have a valid parent.
 */
FormArrayName.prototype.ngOnInit = function () {
    this._checkParentType();
    this.formDirective.addFormArray(this);
}
/**
 * @description
 * A lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
FormArrayName.prototype.ngOnDestroy = function () {
    if (this.formDirective) {
        this.formDirective.removeFormArray(this);
    }
}
Object.defineProperty(FormArrayName.prototype, "control", {
    /**
     * @description
     * The `FormArray` bound to this directive.
     */
    get: function () { return this.formDirective.getFormArray(this); },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormArrayName.prototype, "formDirective", {
    /**
     * @description
     * The top-level directive for this group if present, otherwise null.
     */
    get: function () { return this._parent ? this._parent.formDirective : null; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormArrayName.prototype, "path", {
    /**
     * Returns an array that represents the path from the top-level form to this control.
     */
    get: function () {
        return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormArrayName.prototype, "validator", {
    /**
     * Synchronous validator function composed of all the synchronous validators registered with this.
     */
    get: function () { return composeValidators(this._validators); },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormArrayName.prototype, "asyncValidator", {
    /**
     * Async validator function composed of all the async validators registered with this.
     */
    get: function () {
        return composeAsyncValidators(this._asyncValidators);
    },
    enumerable: true,
    configurable: true
});
FormArrayName.prototype._checkParentType = function () {
    if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.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.SkipSelf()),
    __param(1, core.Optional()),
    __param(1, core.SkipSelf()),
    __param(2),
    __param(2),
], FormArrayName);
return FormArrayName;
}
/**
 * @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
 */
controlNameBinding = {
    provide: NgControl,
    useExisting: core.forwardRef(function () { return FormControlName; })
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control element by name.
 * @see \[Reactive Forms Guide\]
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * ### Register `FormControl` within a form
 * The following example shows how to register multiple form controls within a form group and set their value.
 * (example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component')
 * To see `formControlName` examples with different form control types, see:
 * * Radio buttons: `RadioControlValueAccessor`
 * * Selects: `SelectControlValueAccessor`
 * * ### 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* `* <form [formGroup]="form">* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* ...
Sets the new value for the view model and emits an `ngModelChange` event.

```
setViewModel(newValue) {
    this.viewModel = newValue;
    this.update.emit(newValue);
}
```

* The top-level directive for this group if present, otherwise null

```
function get() {
    return this.controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
}
```

* @description

```
get: function () {
    return composeAsyncValidators(this._rawAsyncValidators);
}
```

* @description

```
function() {
    return composeValidators(this._rawValidators);
}
```

* @description

```
function() {
    if (!(this._parent instanceof FormGroupName) &
        this._parent instanceof AbstractFormGroupDirective) {
        ReactiveErrors.ngModelGroupException();
    }
}
```

* Async validator function composed of all the async validators registered with this directive.

* Synchronous validator function composed of all the synchronous validators registered with this directive.

* Returns an array that represents the path from the top-level form to this control.

```
function() {
    return this.formDirective.addControl(this);
}
```

* @description

```
function() {
    if (!this.control.disabled &&
        this.valueAccessor.setDisabledState) {
        this.valueAccessor.setDisabledState(true);
    }
}
```

* @description

```
function() {
    return null;
}
```

* @description

```
function() {
    return false;
}
```

* @description

```
function() {
    return !this.name;
}
```

* @description

```
function() {
    return !this.name;
}
```

* @description

```
function() {
    return false;
}
```

* @description

```
function() {
    return !this.name;
}
```

* @description

```
function() {
    return !this.name;
}
```

* @description

```
function() {
    return !this.name;
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* @description

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function() {
    return !this.name;
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function() {
    return !this.name;
}
```

* @description

```
function() {
    return !this.name;
}
```

* @description

```
function() {
    return !this.name;
}
```
(() { return RequiredValidator; })

/**
 * @description
 * Provider which adds
 * `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */

@provider var
CHECKBOX_REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return CheckboxRequiredValidator; }),
    multi: true
};

/**
 * @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.
 */

var
CHECKBOX_REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return CheckboxRequiredValidator; }),
    multi: true
};

/**
 * @description
 * 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.
 */

var
EMAIL_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return EmailValidator; }),
    multi: true
};

(function () { return RequiredValidator; })

Object.defineProperty(RequiredValidator.prototype, "required", {
    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;
};

__decorate([core.Input()], RequiredValidator.prototype, "required", null);

RequiredValidator = __decorate([
    core.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' },
        RequiredValidator;}
    ),

    this.requiredValidator.prototype.validate = function (control) {
        return this.required ? Validators.required(control) : null;
    };

    this.requiredValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn;
    };

    this._required = this.requiredValidator.validate(control);};

function CheckboxRequiredValidator() {
    this._required = null;
}

CheckboxRequiredValidator = __decorate([
    core.Directive({
        selector: 
        'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl]
        ,input[type=checkbox][required][ngModel]'),
        providers: [CHECKBOX_REQUIRED_VALIDATOR],
        host: {
            '[attr.required]': 
            'required ? \"\" : null' },
        CheckboxRequiredValidator;}
    ),

    this.requiredValidator.prototype.validate = function (control) {
        return this.required ? Validators.required(control) : null;
    };

    this.requiredValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn;
    };

    this._required = this.requiredValidator.validate(control);};

function EmailValidator() {
    this._required = null;
}

EmailValidator = __decorate([
    core.Directive({
        selector: 
        'input[type=email][required][formControlName],input[type=email][required][formControl]
        ,input[type=email][required][ngModel]'),
        providers: [EMAIL_VALIDATOR],
        host: {
            '[attr.required]': 
            'required ? \"\" : null' },
        EmailValidator;}
    ),

    this.requiredValidator.prototype.validate = function (control) {
        return this.required ? Validators.email(control) : null;
    };

    this.requiredValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn;
    };

    this._required = this.requiredValidator.validate(control);};
The following example shows how to add an email validator to an input attached to an ngModel binding.

```html
<input type="email" name="email" ngModel email="true"/>
```

@publicApi

```html
<input type="email" name="email"
ngModel email="true">
```

```
```
**.maxLengthValidator**

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.

### Adding a maximum length validator

The following example shows how to add a maximum length validator to an input attached to an `ngModel` binding.

```html
<input name="firstName" ngModel maxlength="25">
```

**maxLengthValidator**

```javascript
var MaxLengthValidator = /** @class */ (function () {
    function MaxLengthValidator() {
    }
    /**
     * @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.
     *
     * @param changes A object of key/value pairs for the set of changed inputs.
     */
    MaxLengthValidator.prototype.ngOnChanges = function (changes) {
        if ('maxlength' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @description
     * Method that validates whether the value exceeds the maximum length requirement.
     */
    MaxLengthValidator.prototype.validate = function (control) {
        return this.maxlength != null ? this._validator(control) : null;
    };
    /**
     * @description
     * Registers a callback function to call when the validator inputs change.
     *
     * @param fn The callback function
     */
    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: 
        
            providers: 
            [MAX_LENGTH_VALIDATOR],
        
        host: 
        ["attr.maxlength": 
        "maxlength = max length: null"]
    })), MaxLengthValidator.prototype.ngOnChanges = function (changes) {
        if ('maxlength' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @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.
     */
    PatternValidator.prototype.ngOnChanges = function (changes) {
        if ('pattern' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @description
     * Method that validates whether the value matches the pattern requirement.
     */
    PatternValidator.prototype.validate = function (control) {
        return this._validator(control);)
    };
    /**
     * @description
     * 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 = __decorate([core.Directive({
        selector:
            [PATTERN_VALIDATOR],
        
        host: 
        ["attr.pattern": “**pattern**"]
    })), PatternValidator.prototype.ngOnChanges = function (changes) {
        if ('pattern' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    /**
     * @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.
     */
    PatternValidator.prototype.ngOnChanges = function (changes) {
        if ('pattern' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    ```

---

**PATTERN_VALIDATOR**

A provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.

### Adding a pattern validator

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 ]*">```
[pattern][formControlName],[pattern][formControl],[pattern][ngModel].

providers:

[PatternValidator],

return PatternValidator;() /* * @license *

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var SHARED_FORM_DIRECTIVES = [NgNoValidate, NgSelectOption, NgSelectMultipleOption, DefaultValueAccessor, NumberValueAccessor, RangeValueAccessor, CheckboxControlValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor, NgControlStatus, NgControlStatusGroup, RequiredValidator, MinLengthValidator, MaxValidator, PatternValidator, CheckboxRequiredValidator, EmailValidator ];

var TEMPLATE_DRIVEN_DIRECTIVES = [NgModel, NgModelGroup, NgForm ];

var REACTIVE_DRIVEN_DIRECTIVES = [FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName ];

/**
 * @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
 */

function isAbstractControlOptions(options) {
    return options.asyncValidators !== undefined || options.validators !== undefined || options.updateOn !== undefined;
}

/**
 * @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
 */

var FormBuilder = /** @class */ (function () {
    function FormBuilder() {
    }
    FormBuilder.prototype.group = function (controlsConfig, options) {
        if (options === void 0) { options = null; }
        var controls = this._reduceControls(controlsConfig);
        var validators = null;
        var asyncValidators = null;
        var updateOn = undefined;
        if (options != null) {
            if (isAbstractControlOptions(options)) {
                // `options` are AbstractControlOptions
                validators = options.validators !== undefined ? options.validators : null;
                asyncValidators = options.asyncValidators !== null ? options.asyncValidators : null;
            }
            else {
                // `options` are legacy form group
                optionsValidators = options.validators !== null ? options.validators : null;
                validators = optionsValidators !== null ? optionsValidators : options validators滓
                if (isAbstractControlOptions(options)) {
                    // `options` are AbstractControlOptions
                    validators = options.validators !== null ? options.validators : null;
                    asyncValidators = options.asyncValidators !== null ? options.asyncValidators : null;
                }
            }
        }
        return new FormGroup(controls, { asyncValidators: asyncValidators, updateOn: updateOn, validators: validators });
    }
    return FormBuilder;
});

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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.
* @param usageNotes
* ## Initialize a control as disabled
* The following example returns a control with an initial value in a disabled state.
* @code-example path="\forms\ts\formBuilder\form_builder_example.ts" region="disabled-control">
* FormBuilder.prototype.control = function (formState, validatorOrOpts, asyncValidator) {
  return new FormControl(formState, validatorOrOpts, asyncValidator);
};

/**
 * Constructs a new `FormArray` from the given array of configurations,
* validators and options.
* @param controlsConfig An array of child controls or control configs. Each control is given an index when 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.
* FormBuilder.prototype.array = function (controlsConfig, validatorOrOpts, asyncValidator) {
  var _this = this;
  var controls = controlsConfig.map(function (c) {
    return _this._createControl(c);
  });
  return new FormArray(controls, validatorOrOpts, asyncValidator);
};

/** @internal */
FormBuilder.prototype._reduceControls = function (controlsConfig) {
  var _this = this;
  var controls = {};
  Object.keys(controlsConfig).forEach(function (controlName) {
    controls[controlName] = _this._createControl(controlsConfig[controlName]);
  });
  return controls;
};

/** @internal */
FormBuilder.prototype._createControl = function (controlConfig) {
  if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup ||
controlConfig instanceof FormArray) {
    return controlConfig;
  }
  else if (Array.isArray(controlConfig)) {
    var value = controlConfig[0];
    var validator = controlConfig.length > 1 ? controlConfig[1] : null;
    var asyncValidator = controlConfig.length > 2 ?
    controlConfig[2] : null;
    return this.control(value, validator, asyncValidator);
  }
  else {
    return this.control(controlConfig);
  }
};
ReactiveFormsModule = ReactiveFormsModule

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.NgControl = NgControl;

exports.NgControlStatus = NgControlStatus;

exports.NgFormData = NgFormData;

exports.NgModel = NgModel;

exports.NgModelGroup = NgModelGroup;

exports.NgSelectOption = NgSelectOption;

exports.NumberValueAccessor = NumberValueAccessor;

exports.PatternValidator = PatternValidator;

exports.RadioControlValueAccessor = RadioControlValueAccessor;

exports.RangeValueAccessor = RangeValueAccessor;

exports.ReactiveFormsModule = ReactiveFormsModule;

exports.RequiredValidator = RequiredValidator;

exports.SelectControlValueAccessor = SelectControlValueAccessor;

exports.SelectMultipleControlValueAccessor = SelectMultipleControlValueAccessor;

exports.VERSION = VERSION;

exports.NgForm = NgForm;

exports.NgModelGroup = NgModelGroup;

exports.ngControlStatusHost = ngControlStatusHost;

exports.formDirectiveProvider = formDirectiveProvider;
exports.angular_packages_forms_forms_j = formControlBinding;
exports.angular_packages_forms_forms_k = modelGroupProvider;
exports.angular_packages_forms_forms_l = NUMBER_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_m = RADIO_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_n = RadioControlRegistry;
exports.angular_packages_forms_forms_o = RANGE_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_p = NG_MODEL_WITH_FORM_CONTROL_WARNING;
exports.angular_packages_forms_forms_q = formControlBinding$1;
exports.angular_packages_forms_forms_r = controlNameBinding;
exports.angular_packages_forms_forms_s = formDirectiveProvider$1;
exports.angular_packages_forms_forms_t = formGroupNameProvider;
exports.angular_packages_forms_forms_u = formArrayNameProvider;
exports.angular_packages_forms_forms_v = SELECT_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_w = SELECT_MULTIPLE_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_x = NgSelectMultipleOption;
exports.angular_packages_forms_forms_y = NgNoValidate;
exports.angular_packages_forms_forms_z = REQUIRED_VALIDATOR;

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

})

sourceMappingURL=forms.umd.js.map

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js.map
No license file was found, but licenses were detected in source scan.

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/forms.d.ts
No license file was found, but licenses were detected in source scan.

["version":3,"file":"forms.js","sources":[]]
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.
   *
   * 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 stores the provided function as an internal method.
   *
   * ```ts
   * registerOnChange(fn: (_: any) => void): void {
   *   this._onChange = fn;
   * }
   * ```
   *
   * When the value changes in the UI, the caller of this method updates the
   * form model when values propagate from the view to the model.
   *
   * ```ts
   * host:
   *   `{(change): this.onChange($event.target.value)}`
   * ```
   *
   * @param fn The callback function to register
   */
  registerOnChange(fn: any): void;

  /**
   * @description
   * Registers a callback function that 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
   * blurred or ‘touched’.
   *
   * The following example stores 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): this.onTouched($event.target.value)}`
   * ```
   *
   * @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.
   *
   * 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);
   * }
   * ```
   *
   * @param isDisabled The disabled status to set on the element
   */
  setDisabledState?(isDisabled: boolean): void;
}

/**
 * Used to provide a `ControlValueAccessor` for form controls.
 *
 * See `DefaultValueAccessor` for how to implement one.
 *
 * @publicApi
 */
export const NG_VALUE_ACCESSOR = new InjectionToken('NgValueAccessor');

/**
 * @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 {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

export const CHECKBOX_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => CheckboxControlValueAccessor),
  multi: true,
  * @description
  * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input.
  * The following example shows how to use a checkbox with a reactive form.
  */
export class CheckboxControlValueAccessor {...}
```ts
const rememberLoginControl = new FormControl();

registerOnChange(fn: (_: any) => {}): void {
this.onChange = fn;
}
```

```ts
registerOnTouched(fn: () => {}): void {
this.onTouched = fn;
}
```

```ts
registerOnChange(fn: (_: any) => {}): void {
this.onChange = fn;
}
```

```ts
registerOnTouched(fn: () => {}): void {
this.onTouched = fn;
}
```

```ts
writeValue(value: any): void {
}
```
private _renderer: Renderer2, private _elementRef: ElementRef,\n
@Optional()
@Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean) {\n if (this._compositionMode
== null) {\n
this._compositionMode = !_isAndroid();\n }\n }\n\n /**\n * Sets the \"value\" property on the
input element.\n *\n * @param value The checked value\n */\n writeValue(value: any): void {\n const
normalizedValue = value == null ? '' : value;\n this._renderer.setProperty(this._elementRef.nativeElement, 'value',
normalizedValue);\n }\n\n /**\n * @description\n * Registers a function called when the control value
changes.\n *\n * @param fn The callback function\n */\n registerOnChange(fn: (_: any) => void): void {
this.onChange = fn; }\n\n /**\n * @description\n * Registers a function called when the control is touched.\n
*\n * @param fn The callback function\n */\n registerOnTouched(fn: () => void): void { this.onTouched = fn;
}\n\n /**\n * Sets the \"disabled\" property on the input element.\n *\n * @param isDisabled The disabled
value\n */\n setDisabledState(isDisabled: boolean): void {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n }\n\n /** @internal */\n
_handleInput(value: any): void {\n if (!this._compositionMode || (this._compositionMode && !this._composing))
{\n
this.onChange(value);\n }\n }\n\n /** @internal */\n _compositionStart(): void { this._composing = true;
}\n\n /** @internal */\n _compositionEnd(value: any): void {\n this._composing = false;\n
this._compositionMode && this.onChange(value);\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\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 {

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return this.control ? this.control.status : null; }

/**
 * @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.
 * @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.
 * @return if the control is not present, false is returned.
 */
return !this.control || this.control.untouched;

/**
 * @returns whether the control with the given path has the error specified.
 * @param path A path to the control.
 */
return !this.control || this.control.error;

/**
 * @returns whether the control is present.
 * @param path A path to the control.
 */
return !this.control || this.control.error;

/**
 * @returns whether the control is present.
 * @param path A path to the control.
 */
return !this.control || this.control.error;

/**
 * @returns whether the control is present.
 * @param path A path to the control.
 */
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 * @param path A path to the control.
 */
return !this.control || this.control.error;

/**
 * @returns whether the control is present.
 * @param path A path to the control.
 */
return !this.control || this.control.error;
NgControl extends AbstractControlDirective {

@description
The parent form for the control.

@internal
name: ControlContainer
@description
The name for the control.

valueAccessor: ControlValueAccessor
@description
The value accessor for the control.

The uncomposed array of synchronous validators for the control.

@internal
_@rawValidators:

Array<ValidatorFn> = [];

The uncomposed array of async validators for the control.

in

@throws An exception that this method is not implemented

get validator(): ValidatorFn;

get asyncValidator(): AsyncValidatorFn;

abstract viewToModelUpdate(newValue: any);

/**
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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, Self} from '@angular/core';

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {NgControl} from './ng_control';

export class AbstractControlStatus {

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;
}

get ngClass(): boolean {
  this._cd.control ? this._cd.control.valid : false;
}

get ngClass(): boolean {
  this._cd.control ? this._cd.control.valid : false;
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get ngClass(): boolean {
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get ngClass(): boolean {
  this._cd.control ? this._cd.control.valid : false;
}

get ngClass(): boolean {
  this._cd.control ? this._cd.control.valid : false;
}

get ngClass(): boolean {
synchronous validators used with `AbstractControl`s.\n/*\n * @usageNotes\n * #\n * Providing a custom validator\n * The following example registers a custom validator\n * @Directivewith\n * `@AbstractControl`, mult\n * `@Existing: CustomValidatorDirective`, mult\n * true\n */\n\nValidator \n * validate(control: AbstractControl): ValidationErrors | null \n * return { 'custom': true };\n */\n\n```typescript\n\n@Directive({\n  selector: '[customValidator]',\n  providers: [{provide: NG_VALIDATORS,\n    useClass: CustomValidatorDirective, multi: true}]\n})\nclass CustomValidatorDirective implements Validator {\n  validate(control: AbstractControl): ValidationErrors | null {\n    return { 'custom': true };\n  }\n\n```\n
@publicApi\n*/\nexport const NG_VALIDATORS = new\n\nInjectionToken<Array<Validator|Function>>('NG_VALIDATORS');\n
/**\n * An `InjectionToken` for\n * registering additional asynchronous validators used with `AbstractControl`s.\n */\nexport const NG_ASYNC_VALIDATORS = new\n\nInjectionToken<Array<Validator|Function>>('NG_ASYNC_VALIDATORS');\n
/**\n * A regular expression that matches valid e-mail addresses.\n * At a high level, this regex matches e-mail addresses of the format `local-part@tld`,\n * where: \n * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).\n * - `local-part` cannot begin or end with a period (`.`).\n * - `local-part` cannot be longer than 64 characters.\n * - `tld` consists of one or more `labels` separated by periods (`.`). For example `localhost` or `foo.com`.\n * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and some punctuation symbols)\n * - A `label` cannot begin or end with a period (`.`) or a period (`.`).\n * - A `label` cannot be longer than 64 characters.\n * - The whole address cannot be longer than 254 characters.\n */\nconst EMAIL_REGEXP =\n    /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9\-%\_]+(?:\.[a-zA-Z0-9\-%\_]\.[a-zA-Z0-9\-%\_]+)*@([a-zA-Z0-9\-%\_]+(?:\.[a-zA-Z0-9\-%\_]+)\.[a-zA-Z0-9\-%\_]+)\.$;\n
/**\n * Provides a set of built-in\n * validators that can be used by form controls.\n * A validator is a function that processes a `FormControl` or\n * collection of\n * controls and returns an error map or null. A null map means that validation has passed.\n *\n * The validator exists only as a function and not as a directive.\n * Validate against a minimum of\n * \n * @description\n * @usageNotes\n * #\n * Validate against a minimum of\n */\n\n```typescript\n\nValidator min(min: number): ValidatorFn {\n  return (control:\n    AbstractControl): ValidationErrors | null => {\n    if (isEmptyInputValue(control.value) ||\n      isEmptyInputValue(min)) {\n      return null;\n    }\n    const value = parseFloat(control.value);\n    // Controls with NaN values after parsing should be treated as not\n    // minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min\n    return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;\n  };
}

Validator max(max: number): ValidatorFn {\n  return (control:\n    AbstractControl): ValidationErrors | null => {\n    if (isEmptyInputValue(control.value) ||\n      isEmptyInputValue(max)) {\n      return null;\n    }\n    const value = parseFloat(control.value);\n    // Controls with NaN values after parsing should be treated as not\n    // minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min\n    return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;\n  };
}
```
Open Source Used In MSX SD-Branch Service Pack 3.9.0

Validators.minLength(minLength): Validator that requires the length of the control's value to be greater than or equal to the provided minimum length. This validator is also provided by default if you use the HTML5 `minlength` attribute.

```typescript
const min: number = 3;

const control = new FormControl('ng', Validators.minLength(min));

console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 4}}
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('bad@', Validators.minLength(min));

console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 7}}
```

### Validate that the field matches a valid email pattern

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

### Validate that the field's value pass an email validation test

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

### Validate that the field has maximum of 5 characters

```typescript
const control = new FormControl('bad@', Validators.maxLength(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 7}}
```

### Validate that the field is non-empty

```typescript
const control = new FormControl('', Validators.required);

console.log(control.errors); // {required: true}
```

### Validate that the field value is true

```typescript
const control = new FormControl('true', Validators.requiredTrue);

console.log(control.errors); // {required: true}
```

### Validate that the control has a non-empty value

```typescript
const control = new FormControl('');

console.log(control.errors); // {required: true}
```

### Validate that the field is not NaN

```typescript
const control = new FormControl('');

console.log(control.errors); // {required: true}
```

### Validate that the number of the control's value to be less than or equal

```typescript
const control = new FormControl(5.0, Validators.max(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 5}}
```

### Validate that the number of the control's value to be less than or equal

```typescript
const control = new FormControl(5.0, Validators.max(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 5}}
```

### Validate that the number of the control's value to be less than or equal

```typescript
const control = new FormControl(5.0, Validators.max(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 5}}
```

### Validate that the number of the control's value to be less than or equal

```typescript
const control = new FormControl(5.0, Validators.max(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 5}}
```

### Validate that the number of the control's value to be less than or equal

```typescript
const control = new FormControl(5.0, Validators.max(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 5}}
```

### Validate that the number of the control's value to be less than or equal

```typescript
const control = new FormControl(5.0, Validators.max(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 5}}
```
ValidationErrors | null) => {
    res = errors != null ? {...res !, ...errors} : res !;
  });

  return
Object.keys(res).length === 0 ? null : res !;

/**
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 * 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;
  }
}

/**
 * @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 {

  onChange = (_: any) => {};

  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  writeValue(value: number): void {
    // The value needs to be normalized for IE9, otherwise it is set to 'null' when
    // null
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  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.setDisabledState(isDisabled);
  }
}

/**
 * @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.

```typescript
internal registry. For internal use only.

```
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="\"\" value="\"\" name="\"\"/>");

if (typeof name == \"string\") {
  if (typeof formControlName == \"string\") {
    return name = formControlName;
  }
  return name = null;
}

if (typeof name == \"null\") {
  if (typeof formControlName == \"null\") {
    return name = null;
  }
  return name = formControlName;
}

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 */

import { Directive, ElementRef, Renderer2, StaticProvider, forwardRef } from '@angular/core';

import { ControlValueAccessor, NG_VALUE_ACCESSOR } from '@angular/forms';

export const RANGE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() =>
    RangeValueAccessor,
  ),
  multi: true,
};

export class RangeValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  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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 */

export class ReactiveErrors {
  static 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 *ngFor="let city of cityArray.controls; index as i">
          <input [formControlName]="i">
        </div>
      </div>

      In your class:

      this.cityArray = new FormArray([new FormControl('SF')]);
      this.myGroup = new FormGroup({
        cities: this.cityArray
      });
    }

    ngModelGroup: `<form>
      <div [formGroup]="myGroup">
        <input formControlName="\"firstName\" name="\"name\" [(ngModel)]=\"\">`;
    }

    ngModelWithFormGroup: `<div [formGroup]="\myGroup">
      <input [(ngModel)]=\"showMoreControls\" [ngModelOptions]=\"[standalone: true]"`;
  }

  // other methods...
}

export { FormErrorExamples as Examples } from './error_examples';

export class ReactiveErrors {
  static 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 *ngFor="let city of cityArray.controls; index as i">
          <input [formControlName]="i">
        </div>
      </div>

      In your class:

      this.cityArray = new FormArray([new FormControl('SF')]);
      this.myGroup = new FormGroup({
        cities: this.cityArray
      });
    }

    ngModelGroup: `<form>
      <div [formGroup]="myGroup">
        <input [formControlName]="\"firstName\" name="\"name\" [(ngModel)]=\"\">`;
    }

    ngModelWithFormGroup: `<div [formGroup]="\myGroup">
      <input [(ngModel)]=\"showMoreControls\" [ngModelOptions]=\"[standalone: true]"`;
  }

  // other methods...
}

export { FormErrorExamples as Examples } from './error_examples';

export class ReactiveErrors {
  static 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 *ngFor="let city of cityArray.controls; index as i">
          <input [formControlName]="i">
        </div>
      </div>

      In your class:

      this.cityArray = new FormArray([new FormControl('SF')]);
      this.myGroup = new FormGroup({
        cities: this.cityArray
      });
    }

    ngModelGroup: `<form>
      <div [formGroup]="myGroup">
        <input [formControlName]="\"firstName\" name="\"name\" [(ngModel)]=\"\">`;
    }

    ngModelWithFormGroup: `<div [formGroup]="\myGroup">
      <input [(ngModel)]=\"showMoreControls\" [ngModelOptions]=\"[standalone: true]"`;
  }

  // other methods...
}
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)}`;

]\\n static ngModelGroupException(): void {
  throw new Error(`formControlName cannot be used with an ngModelGroup parent. It is only compatible with parent\n       that also have a "form" prefix: formGroupName, formArrayName, or formGroup.\n Option 1: Update the parent to be formGroupName (reactive form strategy)\n
 $\{Examples.formGroupName\}`;

]\\n static missingFormException(): void {

 throw new Error(`formGroup expects a FormGroup instance. Please pass one in.\n
 $\{Examples.formGroupName\}`);

]\\

static groupParentException(): void {
  throw new Error(`formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup\n      directive and pass it an existing FormGroup instance (you can create one in your class).\n
 $\{Examples.formGroupName\}`);

]\\

static arrayParentException(): void {
  throw new Error(`formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup\n       directive and pass it an existing FormGroup instance (you can create one in your class).\n
 $\{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\ncontrol in your component class, the disabled attribute will actually be set in the DOM for\n you. We recommend\nusing this approach to avoid 'changed after checked' errors.\n
 Example: ` form = new FormGroup(\n
 first: new FormControl(\n` value: 'Nancy', disabled: true), Validators.required),\n last: new\n FormControl(Drew', Validators.required(\n` )\n\n $\{Examples.formGroupName\}`);

]\\

]\\

static ngModelWarning(directiveName: string): void {
  console.warn(`
    It looks like you're using ngModel on the same form field as $\{directiveName\}.\n
    Support for using the ngModel input property and ngModelChange event with \n    reactive form directives has been\n    deprecated in Angular v6 and will be removed in Angular v7.\n
    For more information on this, see our API\n    docs here:\n    https://angular.io/api/forms/$\{directiveName === 'formControl' ? 'FormControlDirective' 
      : 'FormControlName'}#use-with-ngModel
    `);
  }
}

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 * LICENSE file at https://angular.io/license
 */

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_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};

function _buildValueString(id: string | null, value: any): string {
  if (id == null) return `${value}`;
  if (value && typeof value === 'object') value = 'Object';

  return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':')\[0\];
}

/**
 * @description
 * The `ControlValueAccessor` for writing select control values and listening to select control
 * changes. The value accessor is used by the `FormControlDirective`,
 * `FormControlName`, and the `NgModel` directives.\n
 * Use of this source code is governed by an MIT-style license that can be found in the\n * LICENSE file at https://angular.io/license
 */

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_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};

function _buildValueString(id: string | null, value: any): string {
  if (id == null) return `${value}`;
  if (value && typeof value === 'object') value = 'Object';

  return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':')\[0\];
}

/**
 * @description
 * The `ControlValueAccessor` for writing select control values and listening to select control
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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_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};

function _buildValueString(id: string | null, value: any): string {
  if (id == null) return `${value}`;
  if (value && typeof value === 'object') value = 'Object';

  return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':')\[0\];
}

/**
 * @description
 * The `ControlValueAccessor` for writing select control values and listening to select control
 * changes. The value accessor is used by the `FormControlDirective`,
 * `FormControlName`, and the `NgModel` directives.\n
 * Use of this source code is governed by an MIT-style license that can be found in the\n * LICENSE file at https://angular.io/license
 */

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_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};

function _buildValueString(id: string | null, value: any): string {
  if (id == null) return `${value}`;
  if (value && typeof value === 'object') value = 'Object';

  return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':')\[0\];
}
new FormControl();

```typescript
    @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;
    }

    private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;
```
void {\n    this.onChange = (_: any) => {\n      const selected: Array<any> = [];
      if (!_.hasOwnProperty('selectedOptions')) {\n        const opt: any = options.item(i);
        const val: any = this._getOptionValue(opt.value);
        selected.push(val);
      } else {\n        const options: HTMLCollection = _.selectedOptions;
        for (let i = 0; i < options.length; i++) {\n          const opt: any = options.item(i);
          const val: any = this._getOptionValue(opt.value);
          selected.push(val);
        }
      }
      this.value = selected;
    }
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the select input element.
   */
  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`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @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.
   */
  @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.
   */
  @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);
      this._select.writeValue(this._select.value);
    }
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

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

import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {CheckboxControlValueAccessor} from './checkbox_control_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {NgControl} from './ng_control';
import {DefaultValueAccessor} from './default_value_accessor';
import {normalizeAsyncValidator, normalizeValidator} from './normalize_validator';
import {NumberValueAccessor} from './number_value_accessor';
import {RadioControlValueAccessor} from './radio_control_value_accessor';
{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);
  dir.valueAccessor.writeValue(control.value);
  dir.valueAccessor.writeValue(control.value);

  setUpBlurPipeline(control, dir);
  if (dir.valueAccessor.setDisabledState) {
    control.registerOnDisabledChange(() => { 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());
  });
}

export 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: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path !.join('.').length > 1) {
    messageEnd = `name: '${dir.path}'`;
  } else {
    messageEnd = 'unspecified name attribute';
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn|null {
  return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}
return null;Validators.composeAsync(validators.map(normalizeAsyncValidator))});

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {if (!changes.hasOwnProperty('model')) return false;
const change = changes['model'];}

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;
}
});

// TODO: vsavkin remove it once
return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {if (!changes.hasOwnProperty('model')) return false;
const change = changes['model'];}

const BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RadioControlValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RangeValueAccessor];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

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);
}

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);
}

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);
}

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);
}

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);
}{
```javascript
controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
  controlToFind.controls[name] : controlToFind.controls[name];
}

function coerceToValidator(
    validatorOrOpts?: ValidatorFn | ValidatorFn[] |
    AbstractControlOptions | null): ValidatorFn|null {
  const origAsyncValidator
    = (isOptionsObj(validatorOrOpts) ? validatorOrOpts as
      AbstractControlOptions).validators :
        validatorOrOpts;

  return Array.isArray(validator) ? composeValidators(validator) : validator
    || null;
}

function coerceToAsyncValidator(
    asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,
    validatorOrOpts?: ValidatorFn |
    ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator
    = (isOptionsObj(validatorOrOpts) ? (validatorOrOpts 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 {
  /**
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[] | null;
  /**
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[] | null;
  /**
   * The event name for control to update
   * upon.
   */
  updateOn?: 'change'|'blur'|'submit';
}

/**
 * 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 an instantiated directly.
 */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn !: FormHooks;

  // TODO(issue/24571): remove '!'.
  _parent!:
}
```
this._parent.markAsTouched(opts);

/**
 * Marks the control and all its descendant controls as `touched`. If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.
 */
markAllAsTouched(): void {
    this.markAsTouched({onlySelf: true});

    this._forEachChild((control: AbstractControl) => control.markAllAsTouched());
}

/**
 * Marks the control as `touched`. If the control has any children, also marks all children as `touched` and emits events after the marking is applied.
 */
markAsTouched(): void {
    this._parent.markAsTouched({onlySelf: true});

    this._forEachChild((control: AbstractControl) => control.markAllAsTouched());
}

/**
 * Marks the control as `untouched`. If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.
 */
markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = false;

    this._pendingTouched = false;

    this._forEachChild((control: AbstractControl) => {
        control.markAsUntouched({onlySelf: true});
    });

    if (this._parent && !opts.onlySelf) {
      this._parent._updateTouched(opts);
    }
}

/**
 * Marks the control as `dirty`. A control becomes dirty when its value is changed through the UI; compare `markAsTouched`. When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsDirty(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = false;

    if (this._parent && !opts.onlySelf) {
      this._parent.markAsDirty(opts);
    }
}

/**
 * Marks the control as `pristine`. If the control has any children, marks all children as `pristine`, and recalculates the `pristine` status of all parent controls.
 */
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._updatePristine(opts);
    }
}

/**
 * Marks the control as `pending`. When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    (this as{status: string}).status = PENDING;

    if (opts.emitEvent !== false) {
      (this.statusChanges as EventEmitter<any>).emit(this.status);
    }

    if (this._parent && &!opts.onlySelf) {
      this._parent._updatePendingTouched(opts);
    }

    this._updateValue();

    if (opts.emitEvent !== false) {
      (this.valueChanges as EventEmittersany>).emit(this.value);
    }
}

/**
 * Disables the control. This means the control is exempt from validation checks and * excluded from the aggregate value of any parent. Its status is `DISABLED`. When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
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);

    (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 EventEmittersany>).emit(this.value);
    }
}
 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 emits events when marked as untouched.
   * @param opts Configure options that control how the control propagates changes and emits events when
   */
  enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    // If parent has been marked artificially dirty we don't want to re-calculate the
    if (this._parent && !opts.onlySelf) {
      this._parent.updateValueAndValidity(opts);
      if (!opts.skipPristineCheck) {
        this._parent._updatePristine();
      }
      this._parent._updateTouched();
    }
    (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
   */
  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.
   */
  private _setInitialStatus() {
    (this as{status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;
  }

  private _runValidator(): ValidationErrors|null {
    return this.validator ? this.validator(this) : null;
  }

  private _runAsyncValidator(emitEvent?: boolean): void {
    if (this.asyncValidator) {
      (this as{status: string}).status = PENDING;
      const obs = toObservable(this.asyncValidator(this));
      this._asyncValidationSubscription = obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent}));
    }
  }

  private _cancelExistingSubscription(): void {
    if (this._asyncValidationSubscription) {
      this._asyncValidationSubscription.unsubscribe();
    }
  }

  /**
   * Sets errors on a form control when running validations manually, rather than automatically.
   * Calling `setErrors` also updates the validity of the parent.
   */
```javascript
const login = new FormControl('someLogin');
login.setErrors({
  notUnique: true
});
expect(login.valid).toEqual(false);
expect(login.errors).toEqual({ notUnique: true });

login.setValue('someOtherLogin');
expect(login.valid).toEqual(true);
expect(login.errors).toEqual({ notUnique: true });

this.updateControlsErrors();
this.root();
```

### Retrieving a child control

Consider the following `FormGroup`:

```javascript
form = new 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 control itself.

### Retrieving error data

Consider the following `FormGroup`:

```javascript
form = new 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 control itself.

### Assessing control status

Consider the following `FormGroup`:

```javascript
form = new 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 control itself.

### Propagation of errors

Consider the following `FormGroup`:

```javascript
form = new 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 control itself.

### Observability

Consider the following `FormGroup`:

```javascript
form = new 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 control itself.

### Configuration

Consider the following `FormGroup`:

```javascript
form = new 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'`
this._setUpdateStrategy(validatorOrOpts);
  this.updateValueAndValidity({onlySelf: true, emitEvent: false});

  this._initObservables();
 ﾜ這new value for the form control.  ```

  this *@param value The new value for the control. ```

  @param options Configuration options that determine how the control propagates changes in * and emits events when 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. 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 * `onChange` event to * update the view.  ```

  * `emitTo`: When true or not supplied (the default), each change triggers an * `ngModelChange` * event to update the model.  ```

  * `setValue(value: any, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, **emitViewToModelChange?: boolean} = {}): void { ... }`:

  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.

  * This function is functionally the same as [@link FormControl#setValue setValue] at this level.

  * It exists for symmetry with [@link FormGroup#patchValue patchValue] on `FormGroups` and

  * `FormArrays`, where it does behave differently.

  * `setsetValue(value: any, options: options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, **emitViewToModelChange?: boolean} = {}): void { ... }`:

  this.setValue(value, options);

  * Resets the form control, marking it `pristine` and `untouched`, and setting * the value to null.

  * `param` formState 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 in * 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 is reset.  ```

  * When false, no events are emitted.  ```

  * `reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void { ... }`:

  this._applyFormState(formState);

  this.markAsPristine(options);

  this.markAsUntouched(options);

  this.setValue(this.value, options);

  this._pendingChange = false;

  * `internal` * `anyControls(condition: Function): boolean {
      return false;
    }

  * `internal` * `allControlsDisabled: boolean { return this.disabled;

  * `internal` * `registerOnChange(fn: Function): void { ... }`:

  this._onChange.push(fn);

  * `registerOnDisabledChange(fn: (isDisabled: boolean) => void): void { ... }`:

  this._onDisabledChange.push(fn);

  * `collectionChange` * `registerOnCollectionChange(fn: (isDirty: boolean) => void): void { ... }`:

  this._forEachChild(fn);

  * `collectionChange` * `syncPendingControls: boolean { if (this.updateOn === 'submit') { ... } if (this._pendingDirty) this.markAsDirty(); if (this._pendingTouched) this.markAsTouched(); if (this._pendingChange) return false; return true; }

  * `forEachChild(cb: Function): void { ... }`:

  this._forEachChild(cb);
invalid, the entire group becomes invalid. The `FormGroup` is one of the three fundamental building blocks used to define forms in Angular along with `FormControl` and `FormArray`. When instantiating a `FormGroup`, pass in a collection of child controls as the first argument. The key for each child registers the name for the control. You include group-level validators as the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control.

You include group-level validators as the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control.

### Create a form group with 2 controls

```ts
const form = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new FormControl('Drew'),
});

console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
console.log(form.status);  // 'VALID'
```

### Create a form group with a group-level validator

```ts
const form = new FormGroup({
  password: new FormControl('', Validators.minLength(2)),
  passwordConfirm: new FormControl('', Validators.minLength(2)),
}, passwordMatchValidator);

function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value === g.get('passwordConfirm').value
    ? null : {'mismatch': true};
}
```

Like `FormControl` instances, you choose to pass in validators and async validators as part of an options object.

### Set the updateOn 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' });
```
group.

- Reports false for disabled controls. If you’d like to check for existence in the group
  only, use [@link AbstractControl#get get] instead.
- *param controlName The control name to check for existence in the collection
  * @returns false for disabled controls, true otherwise.

### Set the complete value for the form group

- * Sets the value of the `FormGroup`. It accepts an object that matches
  the structure of the group, with control names as keys.
  * * @usageNotes

```ts
  contains(controlName: string): boolean {
    return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
  }
```

### Set the complete value for the form group

```ts
  setValue(value: { [key: string]: any },
          options: { onlySelf?: boolean, emitEvent?: boolean } = {}):
```
The two types of validators are passed in separately as the second and third argument. They are handy when you want to perform validation that considers the value of more than one child control.

The aggregate value of the `FormArray`, 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`. You can get raw value:

```javascript
const arr = new FormArray([
  new FormControl('Nancy'),
  new FormControl('Drew'),
]);
```
```
console.log(arr.value);   // ['Nancy', 'Drew']
console.log(arr.status);  // 'VALID'
```

### Create a form

```javascript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```
```
form.reset({
  first: 'name',
  last: 'last name'
});
```

### Create a form

```javascript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```
```
form.reset();
```

```javascript
form.reset({
  first: 'name',
  last: 'last name'
});
```
```
form.reset();
```

### Create a form

```javascript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```
```
form.reset(
  {first: 'name', last: 'last name'}
);  
```

### Create a form

```javascript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```
```
form.reset();
```

### Create a form

```javascript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```
```
form.reset();
```

### Create a form

```javascript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```
FormControl('Drew')

### Update controls in a form array

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(),
  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 in the `FormArray` itself. These methods ensure the controls are properly tracked in the 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([], {updateOn: 'blur'});
```
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);
  }

  /**
   * Patches the values for controls in a form array
   * const arr = new FormArray([* new FormControl(), * new FormControl()]);
   * console.log(arr.value); // [null, null]
   * arr.patchValue([\'Nancy\']);
   * console.log(arr.value); // [\'Nancy\', null]
   * arr.patchValue([null]);
   * console.log(arr.value); // [null, null]
   * @param value Array of latest values for the controls
   * @param options Configure options that determine how the control propagates changes
   * emits events after the value changes
   * @param value Array of values for the controls
   * @param options Configure options that determine how the control propagates changes
   * emits events after the value changes
   */
  patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    value.forEach((newValue: any, index: number) => {
      if (this.at(index)) {
        this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
      }
    });
    this.updateValueAndValidity(options);
  }

  /**
   * The aggregate value of the array, including any disabled controls.
   * @param value Array of latest values for the controls
   * @param options Configure options that determine how the control propagates changes
   * emits events after the value changes
   */
  getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
      return control instanceof FormControl ? control.value : (<any>control).getRawValue();
    });
  }

  /**
   * Remove all controls in the `FormArray`
   */
  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 subtreeUpdated || child._syncPendingControls() ? true : updated;
    }, false);
    if (subtreeUpdated)
      this.updateValueAndValidity({onlySelf: true});
    return subtreeUpdated;
  }

  /** @internal */
  _throwIfControlMissing(index: number): void {
    if (!this.controls.length)
      throw new Error(`Cannot find form control at index ${index}`);
    if (!this.controls[index])
      throw new Error(`Cannot find form control at index: ${index}`);
    this.controls[index]._throwIfControlMissing(index);
  }

  /** @internal */
  _forEachChild(cb: Function): void {
    this.controls.forEach((control: AbstractControl, index: number) => { cb(control, 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;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }
}

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

import {AfterViewInit, Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';

import {AbstractControl, FormControl, FormGroup, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {NgControl} from './ng_control';
import {NgModel} from './ng_model';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm)
};

const resolvedPromise = (()
  => Promise.resolve(null))();

/**
 * @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.
 * To register
 * child controls with the form, use `NgModel` with a `name`
 * attribute. 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,
 * for example, to use native HTML5 validation, add the
 * `ngNoForm` and
 * `@example
 */

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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. Returns whether the form submission has been triggered.

```html
<form ngNativeValidate>
  ...
</form>
```

@ngModule FormsModule
@publicApi
@Directive({
  selector: 'form:not([ngNoForm]):not([FormGroup]),ng-form,[ngForm],

  providers: [formDirectiveProvider],

  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},

  outputs: ['ngSubmit'],

  exportAs: 'NgForm'
})
export class NgForm extends ControlContainer implements Form,

AfterViewInit {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _directives: NgModel[] = [];

  /**
   * @description
   * The `FormGroup` instance created for this form.
   */
  form: FormGroup;

  /**
   * @description
   * Event emitter for the 'ngSubmit' event
   */
  ngSubmit = new EventEmitter();

  /**
   * @description
   * Tracks options for the 'NgForm' instance.
   */
  // TODO(issue/24571): remove '!'.
  @Input('ngFormOptions') options !: {updateOn?: FormHooks};

  constructor(
    @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])

  { super(): this.form = new FormGroup({}, composeValidators(validators),
    composeAsyncValidators(asyncValidators));

  };

  /**
   * @description
   * Lifecycle method called after the view is initialized. For internal use only.

  */
  ngAfterViewInit() { this._setUpdateStrategy(); }

  /**
   * @description
   * The directive instance.
   */
  get formDirective(): Form { return this; }

  /**
   * @description
   * The internal `FormGroup` instance.
   */
  get control(): FormGroup { return this.form; }

  /**
   * @description
   * Returns an array representing the path to this group. Because this directive
   * always lives at the top level of a form, it is always an empty array.

  */
  get path(): string[] { return [];

  }

  /**
   * @description
   * Returns a map of the controls in this group.
   */
  get controls(): {
    string: AbstractControl} { return this.form.controls;

  }

  /**
   * @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.

  */
  addControl(dir: NgModel): void {

  }

  /**
   * @description
   * Retrieves the `FormControl` instance from the provided `NgModel` directive.

  */
  getControl(dir: NgModel): FormControl { return this.form.get(dir.path);

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.

  */
  getFormGroup(dir: NgModelGroup): FormGroup { return this.form.get(dir.path);

  }

  /**
   * @description
   * Adds a new
   * `NgModelGroup` directive instance to the form.

  */
  addFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.

  */
  @param dir The `NgModelGroup` directive instance.

  */
  addControl(dir: NgModel): void {

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.

  */
  @param dir The `NgControl` directive.

  */
  addControl(dir: NgModel): void {

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.

  */
  @param dir The `NgControl` directive.

  */
  addControl(dir: NgModel): void {

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.

  */
  @param dir The `NgControl` directive.

  */
  addControl(dir: NgModel): void {

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Removes
   * the `NgModelGroup` directive instance from the form.

  */
  removeFormGroup(dir: NgModelGroup): void {

  }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.

  */
  @param dir The `NgControl` directive.
```typescript
instance.

* @param value The new value for the directive's control.
* @param updateModel(dir: NgControl, value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param updateModel(dir: NgControl, value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  });
}
```

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instance.

* @param value The new value for the directive's control.
* @param updateModel(dir: NgControl, value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path !);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path !);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path !);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path !);
    ctrl.setValue(value);
  });
}

* @param value The new value for the directive's control.
* @param setValue(value: any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path !);
    ctrl.setValue(value);
  });
}
```
Error(`\n  ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.\n  Option 1: Use formControlName instead of ngModel (reactive strategy):\n\n  ${Examples.formGroupName}\n  Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n  ${Examples.ngModelGroup}\n  Option 3: static missingNameException() { throw new Error(`\n    If ngModel is used within a form tag, either the name attribute must be set or the form\n    control must be defined as 'standalone' in ngModelOptions.\n\n    Example 1: <input [(ngModel)]="person.firstName"\n    name="first"></input>\n    Example 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: \n    true}"></input>\n  }\n\n  static missingNameException() {\n    throw new Error(`\n      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName\n      directive.\n
      Option 1: Use formControlName instead of ngModel (reactive strategy):\n
      ${Examples.formGroupName}\n
      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      ${Examples.ngModelGroup}\n      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):\n\n      ${Examples.formGroupName}\n      Option 2: Use a regular form tag instead of the formGroup\n      directive (template-driven strategy):\n\n      ${Examples.ngModelGroup}\n  }
\nCopyright Google Inc. All Rights Reserved\n\n* Use of this source code is governed by an MIT-style license that\n  can be\n  * found in the LICENSE file at https://angular.io/license\n\n```
`ngModel` forces an additional change detection run when its inputs change. E.g., `n *`.

The `FormControl` instance tracks the value, user interaction, and validation status of the control and keeps the view synced with the model. If used with a parent form, the directive also registers itself with the form as a child control.

Using `ngModel` on a standalone control:

The following examples show a simple standalone control using `ngModel`:

```html
<input name="login" ngModel placeholder="Login">
<input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
```

Setting the `ngModel` name attribute through options:

```html
<nx-export class="NgModel" name="Nancy" ngModel [ngModelOptions]="'{name: 'user'}"/>
```

Exporting class `NgModel` extends `NgControl` implements `OnChanges`, `OnDestroy`:

At runtime we coerce arbitrary values assigned to the `disabled` input to a `boolean`.

This is not reflected in the type of the property because outside of templates, consumers should only deal with booleans. In templates, a string is allowed for convenience and to match the native `disabled` semantics which can be observed on input elements.

This static member tells the compiler that values of type `string` can also be assigned to the input in a template.
ngAcceptInputType_isDisabled: boolean|string;`\n  /** @internal */\n  _registered = false;`\n  /**\n   * @description\n   * Internal reference to the view model value.\n   */\n  viewModel: any;`\n  /**\n   * @description\n   * Tracks the name bound to the directive. The parent form\n   * uses this name as a key to retrieve this control’s value.\n   */\n  // TODO(issue/24571): remove '!'.\n  @Input() name!: string;`\n  /**\n   * @description\n   * Tracks whether the control is disabled.\n   */\n  disabled: boolean;`\n  /**\n   * @description\n   * Track changes to the control’s invalid state.\n   */\n  isDisabled!: boolean|string;

  /** @internal */\n  _registered = false;`\n  /**\n   * @description\n   * Internal reference to the view model value.\n   */\n  viewModel: any;`\n  /**\n   * @description\n   * Tracks the name bound to the directive. The parent form\n   * uses this name as a key to retrieve this control’s value.\n   */\n  // TODO(issue/24571): remove '!'.\n  @Input() name!: string;`\n  /**\n   * @description\n   * Tracks whether the control is disabled.\n   */\n  disabled: boolean;`\n  /**\n   * @description\n   * Track changes to the control’s invalid state.\n   */\n  isDisabled!: boolean|string;

  /** @internal */\n  _registered = false;`\n  /**\n   * @description\n   * Internal reference to the view model value.\n   */\n  viewModel: any;`\n  /**\n   * @description\n   * Tracks the name bound to the directive. The parent form\n   * uses this name as a key to retrieve this control’s value.\n   */\n  // TODO(issue/24571): remove '!'.\n  @Input() name!: string;`\n  /**\n   * @description\n   * Tracks whether the control is disabled.\n   */\n  disabled: boolean;`\n  /**\n   * @description\n   * Track changes to the control’s invalid state.\n   */\n  isDisabled!: boolean|string;
boolean {\n    return !this._parent || !!(this.options & this.options.standalone);\n}\n
private setUpStandalone(): void {\n    setControl(this.control, this);\n}

this.control.updateValueAndValidity({emitEvent: false}); this.control private_checkForErrors(): void {\n    if (!this.control) this._checkParentType();\n}\n
this._setUpStandalone(): void {\n    setUpControl(this.control, this);\n    this.control.updateValueAndValidity({emitEvent: false});\n}\n
private _checkForErrors(): void {\n    if (!this._isStandalone()) {\n        this._checkParentType();\n    }\n    this._checkName();\n}\n
private _checkParentType(): void {\n    if (!(this._parent instanceof NgModelGroup) && this._parent instanceof AbstractFormGroupDirective) {\n        TemplateDrivenErrors.formGroupNameException();\n    } else if (!(this._parent instanceof NgModelGroup) && this._parent instanceof NgForm) {\n        TemplateDrivenErrors.modelParentException();\n    }\n}\n
private _checkName(): void {\n    if (this.options && this.options.name) this.name = this.options.name;\n    if (!this._isStandalone() && !this.name) {\n        TemplateDrivenErrors.missingNameException();\n    }\n}\n
private _updateValue(value: any): void {\n    resolvedPromise.then(() => {\n        this.control.setValue(value, {emitViewToModelChange: false});\n    });\n}\n
private _updateDisabled(changes: SimpleChanges) {\n    const disabledValue = changes['isDisabled'].currentValue;\n    const isDisabled = disabledValue === '' || (disabledValue && disabledValue !== 'false');\n    resolvedPromise.then(() => {\n        if (isDisabled) this.control.disable();\n        else if (!isDisabled && this.control.disabled) this.control.enable();\n    });\n}\n
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 */

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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 */

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),
};

export {formControlBinding as NgControl};

/**
 * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @example 
 * ```
 * # ts
 * import {Component} from '@angular/core';
 * 
 * @Component({
 *   selector: 'example-form',
 *   templateUrl: 'example-form.html',
 *   standalone: true,
 *   imports: [NgModelModule]
 * })
 * 
 * @ngModel directive
 * ```
 * 
 * ```
 * export class ExampleForm {
 *   control: FormControl;
 * };
 * ```
 * 
 * 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 appears a `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 in a template-driven and reactive forms strategies, which 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.

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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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.
* @description
  * Synchronous validator function composed of all the synchronous validators registered with this directive.
  * returns a null. *get validator(): ValidatorFn*  
  * composeValidators(this._rawValidators); */
  * @description
  * Async validator function composed of all the async validators registered with this directive. *get asyncValidator(): AsyncValidatorFn*  

  /**
   * @description
   * The 'FormControl' bound to this directive.
   */
  get control(): FormControl { return this.form; }

  /**
   * @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);
  }

  private _isControlChanged(changes: {[key: string]: any}): boolean {
    return changes.hasOwnProperty('form');
  }

  /**
   * @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();
  }

  /**
   * 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: ngOnChanges): void {
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  /**
   * Returns this directive's instance.
   */
  get formDirective(): FormGroupDirective {
    return this.formDirectiveProvider;
  }

  /**
   * 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.

```typescript
/**
 * @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` directive instance.
 */
addControl(dir: FormControlName): FormControl {
  const ctrl = this.form.get(dir.path);
  setUpControl(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
  this.directives.push(dir);
  return ctrl;
}

/**
 * @description
 * Retrieves the `FormControl` instance from the provided `FormControlName` directive instance from the internal list of directives.
 * @param dir The `FormControlName` directive instance.
 */
getControl(dir: FormControlName): FormControl {
  return <FormControl>this.form.get(dir.path);
}

/**
 * @description
 * 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);
}

/**
 * @description
 * 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` directive instance.
 */
removeFormGroup(dir: FormGroupName): void {}

/**
 * @description
 * 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);
}

/**
 * Adds a new `FormArrayName` directive instance to the form.
 * @param dir The `FormArrayName` directive instance.
 */
addFormArray(dir: FormArrayName): void {
  const ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
}

/**
 * No-op method to remove the form array.
 * @param dir The `FormArrayName` directive instance.
 */
removeFormArray(dir: FormArrayName): void {}

/**
 * @description
 * Retrieves the `FormArray` for a provided `FormArrayName` directive instance.
 * @param dir The `FormArrayName` directive instance.
 */
getFormArray(dir: FormArrayName): FormArray {
  return <FormArray>this.form.get(dir.path);
}

/**
 * Sets the new value for the provided `FormControlName` directive.
 * @param dir The `FormControlName` directive instance.
 * @param value The new value for the directive's control.
 */
updateModel(dir: FormControlName, value: any): void {
  const ctrl = <FormControl>this.form.get(dir.path);
  ctrl.setValue(value);
}

/**
 * @description
 * Method called with the "submit" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
 * @param $event The "submit" event object
 */
onSubmit($event: Event): boolean {
  (this as{submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);
  this.form._updateTreeValidity({emitEvent: false});
  this.ngSubmit.emit($event);
  return false;
}

/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * 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;
  this.directives.forEach(dir => {
    this.updateDomValue(dir);
  });
}
```

The given code is part of an Angular application, specifically a directive for handling form controls and groups. It includes methods for setting up, retrieving, and removing control directives, as well as for updating the model and submitting the form. The code is designed to be part of a larger framework, likely Angular, given the use of Angular-specific types like `FormControl` and `FormGroup`. The documentation and comments indicate its role in managing form data and events in an Angular application.
OnInit, Optional, Self, SkipSelf, forwardRef) from '@angular/core';

import { FormArray } from 'angular/core';

import { NG_ASYNC_VALIDATORS, NG_VALIDATORS } from '@angular/core';

import { AbstractFormGroupDirective } from '@angular/forms';

import { ControlContainer, FormGroupDirective } from '@angular/forms';

import { ReactiveErrors } from '@angular/forms';

import { composeAsyncValidators, composeValidators, controlPath } from '@angular/forms';

import { FormGroupDirective } from '@angular/forms';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 * It accepts the string name of the nested `FormGroup` to link, and
 * looks for a `FormGroup` registered with that name in the parent
 * `FormGroup` instance you passed into `FormGroupDirective`.
 * Use nested form groups to validate a sub-group of an
 * form separately from the rest or to group the values of certain
 * controls into their own nested object.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @usageNotes
 *
 * ### Access the group by name
 *
 * The following example uses the [link AbstractControl#get get] method to access
 * a nested `FormGroup`.
 *
 * ```ts
 *   this.form.get('name');
 * ```
 *
 * ### Access individual controls in the group
 *
 * The following example uses the [link AbstractControl#get get] method to access
 * individual controls 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.

@Directive({ selector: '[formGroupName]', providers: [formGroupNameProvider] })
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormGroup` bound to the directive. The
   * name corresponds to a key in the parent `FormGroup` or `FormArray`.
   */
  // this._parent = parent;
  // this._validators = validators;
  // this._asyncValidators = asyncValidators;
}

export const formArrayNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormArrayName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 * It accepts the string name of the nested `FormArray` you want to link, and
 * looks for a `FormArray` registered with that name in the parent
 * `FormGroup` instance you passed into `FormGroupDirective`.
 * Use nested form arrays to validate a sub-group of an
 * form separately from the rest or to group the values of certain
 * controls into their own nested object.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @usageNotes
 *
 * ### Example
 *
 * ```ts
 *   this.form.get('name.first');
 * ```
 *
 * ### Register a nested `FormArray`.
 *
 * The following example registers a nested `FormArray` within an existing
 * `FormArray` and provides methods to retrieve the nested `FormArray` and individual controls.

@Directive({ selector: '[formArrayName]', providers: [formArrayNameProvider] })
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormArray` bound to the directive. The
   * name corresponds to a key in the parent `FormGroup` or `FormArray`.
   */
  // this._parent = parent;
  // this._validators = validators;
  // this._asyncValidators = asyncValidators;
}

OnInit, Optional, Self, SkipSelf, forwardRef) from '@angular/core';

import { FormArray } from 'angular/core';

import { NG_ASYNC_VALIDATORS, NG_VALIDATORS } from '@angular/core';

import { AbstractFormGroupDirective } from '@angular/forms';

import { ControlContainer, FormGroupDirective } from '@angular/forms';

import { ReactiveErrors } from '@angular/forms';

import { composeAsyncValidators, composeValidators, controlPath } from '@angular/forms';

import { FormGroupDirective } from '@angular/forms';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 * It accepts the string name of the nested `FormGroup` to link, and
 * looks for a `FormGroup` registered with that name in the parent
 * `FormGroup` instance you passed into `FormGroupDirective`.
 * Use nested form groups to validate a sub-group of an
 * form separately from the rest or to group the values of certain
 * controls into their own nested object.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @usageNotes
 *
 * ### Access the group by name
 *
 * The following example uses the [link AbstractControl#get get] method to access
 * a nested `FormGroup`.
 *
 * ```ts
 *   this.form.get('name');
 * ```
 *
 * ### Access individual controls in the group
 *
 * The following example uses the [link AbstractControl#get get] method to access
 * individual controls 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.

@Directive({ selector: '[formGroupName]', providers: [formGroupNameProvider] })
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormGroup` bound to the directive. The
   * name corresponds to a key in the parent `FormGroup` or `FormArray`.
   */
  // this._parent = parent;
  // this._validators = validators;
  // this._asyncValidators = asyncValidators;
}

export const formArrayNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormArrayName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 * It accepts the string name of the nested `FormArray` you want to link, and
 * looks for a `FormArray` registered with that name in the parent
 * `FormGroup` instance you passed into `FormGroupDirective`.
 * Use nested form arrays to validate a sub-group of an
 * form separately from the rest or to group the values of certain
 * controls into their own nested object.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @usageNotes
 *
 * ### Example
 *
 * ```ts
 *   this.form.get('name.first');
 * ```
 *
 * ### Register a nested `FormArray`.
 *
 * The following example registers a nested `FormArray` within an existing
 * `FormArray` and provides methods to retrieve the nested `FormArray` and individual controls.

@Directive({ selector: '[formArrayName]', providers: [formArrayNameProvider] })
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormArray` bound to the directive. The
   * name corresponds to a key in the parent `FormGroup` or `FormArray`.
   */
  // this._parent = parent;
  // this._validators = validators;
  // this._asyncValidators = asyncValidators;
}
@Inject(NG_VALIDATORS) validators: any[],
@Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
asyncValidators: any[],

this._validators = validators,
this._asyncValidators = asyncValidators,

this.formDirective.addFormArray(this);

this._checkParentType();

this.formDirective.removeFormArray(this);

ReactiveErrors.arrayParentException();

import {FormsModule} from '@angular/forms';
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 [Reactive Forms
 * Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form controls within a form group
 * and set their 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/setting the value in the template 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 either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the template 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.

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. *

```html
<form [formGroup]="form">
  <input formControlName="first">
</form>
``` *

```ts
this.form.get('first').setValue('some value');
``` *

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `'always'`.

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
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})
  ],
  declarations: [
    MyComponent
  ],
  providers: [
  ],
  bootstrap: [
    MyComponent
  ]
})
export class AppModule {
}
``` *

Use this configuration to suppress all deprecation warnings, or use a custom config to suppress warnings for a specific class or directive. Use the following syntax to suppress warnings for a class or module:

```ts
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'})
  ],
  declarations: [
    MyComponent
  ],
  providers: [
  ],
  bootstrap: [
    MyComponent
  ]
})
export class AppModule {
}
``` *

Use this configuration to suppress all deprecation warnings, or use a custom config to suppress warnings for a specific class or directive. Use the following syntax to suppress warnings for a class or module:

```ts
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'})
  ],
  declarations: [
    MyComponent
  ],
  providers: [
  ],
  bootstrap: [
    MyComponent
  ]
})
export class AppModule {
}
``` *

Use this configuration to suppress all deprecation warnings, or use a custom config to suppress warnings for a specific class or directive. Use the following syntax to suppress warnings for a class or module:

```ts
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'})
  ],
  declarations: [
    MyComponent
  ],
  providers: [
  ],
  bootstrap: [
    MyComponent
  ]
})
export class AppModule {
}
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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
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'})
  ],
  declarations: [
    MyComponent
  ],
  providers: [
  ],
  bootstrap: [
    MyComponent
  ]
})
export class AppModule {
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Use this configuration to suppress all deprecation warnings, or use a custom config to suppress warnings for a specific class or directive. Use the following syntax to suppress warnings for a class or module:

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@NgModule({
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'})
  ],
  declarations: [
    MyComponent
  ],
  providers: [
  ],
  bootstrap: [
    MyComponent
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export class AppModule {
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Use this configuration to suppress all deprecation warnings, or use a custom config to suppress warnings for a specific class or directive. Use the following syntax to suppress warnings for a class or module:

```ts
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [
    ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'always'})
  ],
  declarations: [
    MyComponent
  ],
  providers: [
  ],
  bootstrap: [
    MyComponent
  ]
})
export class AppModule {
}
``` *

Use this configuration to suppress all deprecation warnings, or use a custom config to suppress warnings for a specific class or directive. Use the following syntax to suppress warnings for a class or module:
this.model);

/**
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
@Input() ngOnDestroy: void | function; // The `ngOnDestroy` input is used to call the directive's ngOnDestroy method.

/**
 * Sets the new value for the view model and emits an `ngModelChange` event.
 */
@Input() newValue: any; // The `newValue` input allows the directive to receive a new value for the view model.

/**
 * Returns an array that represents the path from the top-level form to this control.
 */
private get path(): string[]

/**
 * The top-level directive for this group if present, otherwise null.
 */
get formDirective(): any { return this._parent.formDirective; } // The `formDirective` getter returns the top-level directive for this group.

/**
 * Synchronous validator function composed of all the synchronous validators registered with this directive.
 */
get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); } // The `validator` getter returns a synchronous validator.

/**
 * Async validator function composed of all the async validators registered with this directive.
 */
get asyncValidator(): AsyncValidatorFn // The `asyncValidator` getter returns an async validator.

/**
 * Returns a map of errors returned from failed validation checks.
 */
export type ValidationErrors = { [key: string]: any } // The `ValidationErrors` type represents a map of validation errors.

/**
 * An interface implemented by classes that perform synchronous validation.
 */
export interface Validator

/**
 * An interface implemented by classes that perform asynchronous validation.
 */
export interface AsyncValidator extends Validator

/**
 * Method that performs synchronous validation against the provided control.
 */
validate(control: AbstractControl): ValidationErrors|null

/**
 * Method that performs async validation against the provided control.
 */
validate(control: AbstractControl): Observable<ValidationErrors|null>
AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 *
 * @description
 * Provider which adds the `required` validator to all controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 *
 * @usageNotes
 * The following example shows how to add a required checkbox validator to an input attached to an ngModel binding.
 * ```
 * <input type="checkbox" name="active" ngModel required>
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
@Directive({
  selector:
  '[type=checkbox][required][ngModel][formControlName]',
  providers: [CHECKBOX_REQUIRED_VALIDATOR]
})
export class CheckboxRequiredValidator extends RequiredValidator {
  /**
   * Method that validates whether or not the checkbox has been checked.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}

/**
 * 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.
 *
 * @usageNotes
 * The following example shows how to add an email validator to an input attached to an ngModel binding.
 * ```
 * <input type="email" name="email" ngModel email>
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 */
@Directive({
  selector:
  '[email][formControlName]',
  providers: [EMAIL_VALIDATOR]
})
export class EmailValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _enabled !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Method that validates whether or not the checkbox has been checked.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }
}

/**
 * StaticProvider:
 * StaticProvider = { [un: provide: NG_VALIDATORS, un useExisting:
 * forwardRef(i => RequiredValidator), un multi: true
 * un/**un * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */

export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => 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.
 *
 * @usageNotes
 * Adding a required validator using template-driven forms:
 * ```
 * <input name="full Name" ngModel required>
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 */
@Directive({
  selector:
  'input[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * 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;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}

/**
 * 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.
 *
 * @usageNotes
 * The following example shows how to add an email validator to an input attached to an ngModel binding.
 * ```
 * <input type="email" name="email" ngModel email="true">
 * ```
 *
 * @publicApi
 * @ngModule FormsModule
 */
@Directive({
  selector:
  '[email][formControlName]',
  providers: [EMAIL_VALIDATOR]
})
export class EmailValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _enabled !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Method that validates whether or not the checkbox has been checked.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.requiredTrue(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}
private _validator!: ValidatorFn;

// TODO(issue/24571): remove '!'.
private _onChange!: () => void;

/**
 * @description
 * Tracks changes to the maximum length bound to this directive.
 * @param changes 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.
 * @param ngOnChanges(changes: SimpleChanges): void {
 * if (changes.maxLength in changes) {
 * this._createValidator();
 * if (this._onChange) this._onChange();
 * }
 * this._validator = Validators.maxLength
 * (typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
 * }
 * }
 * }
 */

/**
 * @description
 * Method that validates whether the value exceeds
 * the maximum length requirement.
 * @param control: AbstractControl; ValidationErrors
 * return this._validator(control); this.onChange();
 */

/**
 * @description
 * Method that validates whether the value matches
 * the pattern requirement.
 * @param fn: The callback function
 * return this._validator(fn); this.registerOnChange(fn); this.markAsTouched();
 */

/**
 * @description
 * Registers a callback function to call when the
 * validator inputs change.
 * @param fn: The callback function
 * return this._onChange; this._onChange = fn; this._validator = Validators.pattern
 * (this.pattern);
 */

/**
 * @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,
}

/**
 * @description
 * 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)
 */

@Directive({
  selector: '[pattern][formControlName], [pattern][formControl], [pattern][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.
   * @param changes A object of key/value pairs for the set of changed inputs.
   * @param ngOnChanges(changes: SimpleChanges): void {
   * if (changes.pattern in changes) {
   * this._createValidator();
   * if (this._onChange) this._onChange();
   * }
   * this._validator = Validators.pattern
   * (this.pattern);
   * }
   */

  /**
   * @description
   * Method that validates whether the value matches
   * the pattern requirement.
   * @param control: AbstractControl; ValidationErrors
   * return this._validator(control);
   * }
   */

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * @param fn: The callback function
   * return this._validator; this._validator = fn; this._validator = Validators.pattern
   * (this.pattern);
   * }
   */

  /**
   * @description
   * 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
   * 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 {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 {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {FormsModule, ReactiveFormsModule} from '@angular/forms';
import {FormArrayName, FormGroupName} from './directives/reactive_directives';
import {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_directive';
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 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];

/**
 * @license
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 *
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 */

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)
 */
@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) The `AbstractControlOptions` object (preferred), which consists of:
   * * 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
   */

  constructor(@Optional() @Self() @Inject(INTERNAL_FORMS_SHARED_MODULE) internalFormsSharedModule: InternalFormsSharedModule, @Optional() @Inject(ASYNC_VALIDATOR) asyncValidator: AsyncValidatorFn, @Optional() @Inject(VALIDATOR) validator: ValidatorFn) { /* Controlled by Parent */ }
}
async validator functions

** `updateOn`: The event upon which the control should be updated (options: `change` | `blur` | `submit`) *\n* \n* \n* \n\n2) 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 *\n* \n* \n\n\nOrdinary configuration object in FormControl

* `validator`: A synchronous validator or array of validator functions
* `asyncValidator`: A single async validator or array of validators

Options for both普通配置对象，包含：

* `validator`: 同步校验器或校验器数组
* `asyncValidator`: 单个异步校验器或校验器数组

### 调用示例

```javascript
// 初始化一个控制为禁用状态
new FormControl(formState, validatorOrOpts, asyncValidator);
```
'@angular/core':``\n\nimport {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES} from './directives';\nimport {RadioControlRegistry} from './directives/radio_control_value_accessor';\nimport {FormsModule} from './form_builder';\n
/**\n * Exports the required providers and directives for template-driven forms,\n * making them available for import by NgModules that import this module.\n *
 * @see [Forms Guide](/guide/forms)\n *
 * @publicApi\n */\n@NgModule({\n  declarations: TEMPLATE_DRIVEN_DIRECTIVES,\n  providers: [RadioControlRegistry],\n  exports: [InternalFormsSharedModule,\n    TEMPLATE_DRIVEN_DIRECTIVES]\n})\nexport class FormsModule {
}

/**\n * Exports the required infrastructure and directives for reactive forms,\n * making them available for import by NgModules that import this module.\n *
 * @see [Forms](guide/reactive-forms)\n *
 * @see [Reactive Forms Guide](/guide/reactive-forms)\n *
 * @publicApi\n */\n@NgModule({\n  declarations: [REACTIVE_DRIVEN_DIRECTIVES],\n  providers: [FormBuilder, RadioControlRegistry],\n  exports: [InternalFormsSharedModule,\n    REACTIVE_DRIVEN_DIRECTIVES]\n})\nexport class ReactiveFormsModule {
  /**\n   * @description\n   * Provides options for configuring the reactive forms module.\n   * * `warnOnNgModelWithFormControl` Configures when to emit a warning when an ngModel binding is used with reactive form directives.\n   * @param opts An object of configuration options\n   * * `warnOnNgModelWithFormControl` Configures when to emit a warning when an ngModel binding is used with reactive form directives.\n   */\n  static withConfig(opts: {
    warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders<ReactiveFormsModule> {
    return {
      ngModule: ReactiveFormsModule,
      providers: [{\n        provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
        useValue: opts.warnOnNgModelWithFormControl\n      }\n    };
  }
}

'**Generated bundle index. Do not edit..**'\n
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';
export {formDirectiveProvider as ɵangular_packages_forms_forms_i} from './src/directives/ng_form';
export {formControlBinding as ɵangular_packages_forms_forms_j} from './src/directives/ng_model';
export {modelGroupProvider as ɵangular_packages_forms_forms_k} from './src/directives/ng_model_group';
export {NgNoValidate as ɵangular_packages_forms_forms_y} from './src/directives/ng_no_validate_directive';
export {NUMBER_VALUE_ACCESSOR as ɵangular_packages_forms_forms_l} from './src/directives/number_value_accessor';
export {RADIO_VALUE_ACCESSOR as ɵangular_packages_forms_forms_m} from './src/directives/radio_control_value_accessor';
export {AbstractControlStatus as ɵangular_packages_forms_forms_n,RadioControlRegistry as ɵangular_packages_forms_forms_o} from './src/directives/radio_control_value_accessor';
export {RangeValueAccessor as ɵangular_packages_forms_forms_p} from './src/directives/range_value_accessor';
export {NG_MODEL_WITH_FORM_CONTROL_WARNING as ɵangular_packages_forms_forms_q} from './src/directives/ reactive_directives/form_control_directive';
export {controlNameBinding as ɵangular_packages_forms_forms_r} from './src/directives/ reactive_directives/form_control_name';
export {formDirectiveProvider as ɵangular_packages_forms_forms_s} from './src/directives/ reactive_directives/form_group_directive';
export {formArrayNameProvider as ɵangular_packages_forms_forms_t} from './src/directives/ reactive_directives/form_group_name';
export {SELECT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_u,SELECT_MULTIPLE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_v} from './src/directives/ reactive_directives/select_control_value_accessor';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_w,SELECT_MULTIPLE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_x} from './src/directives/ reactive_directives/select_multiple_control_value_accessor';
export {formDirectiveProvider as ɵangular_packages_forms_forms_y} from './src/directives/ reactive_directives/select_multiple_control_group_directive';
export {formArrayNameProvider as ɵangular_packages_forms_forms_z} from './src/directives/ reactive_directives/select_multiple_control_group_name';
{CHECKBOX_REQUIRED_VALIDATOR as `ɵangular_packages_forms_forms_bb.MAX_LENGTH_VALIDATOR as
`ɵangular_packages_forms_forms_bb.MIN_LENGTH_VALIDATOR as
`ɵangular_packages_forms_forms_bb.PATTERN_VALIDATOR as
Open Source Used In MSX SD-Branch Service Pack 3.9.0

```
{CHECKBOX_REQUIRED_VALIDATOR as `ɵangular_packages_forms_forms_bb.EMAIL_VALIDATOR as
`ɵangular_packages_forms_forms_bb.MAX_LENGTH_VALIDATOR as
`ɵangular_packages_forms_forms_bb.MIN_LENGTH_VALIDATOR as
`ɵangular_packages_forms_forms_bb.PATTERN_VALIDATOR as
Open Source Used In MSX SD-Branch Service Pack 3.9.0
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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

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

[
"version":3,
"file":"forms.umd.js",
"sources":
["../../../../../external/npm/node_modules/tslib/tslib.es6.js",
"../../../../../packages/forms/src/directives/control_value_accessor.ts",
"../../../../../packages/forms/src/directives/checkbox_value_accessor.ts",
"../../../../../packages/forms/src/directives/default_value_accessor.ts",
"../../../../../packages/forms/src/directives/abstract_control_directive.ts",
"../../../../../packages/forms/src/directives/control_container.ts",
"../../../../../packages/forms/src/directives/ng_control.ts",
"../../../../../packages/forms/src/directives/ng_control_status.ts",
"../../../../../packages/forms/src/validators.ts",
"../../../../../packages/forms/src/directives/normalize_validator.ts",
"../../../../../packages/forms/src/directives/number_value_accessor.ts",
"../../../../../packages/forms/src/directives/radio_control_value_accessor.ts",
"../../../../../packages/forms/src/directives/range_value_accessor.ts",
"../../../../../packages/forms/src/directives/error_examples.ts",
"../../../../../packages/forms/src/directives/reactive_errors.ts"
]
}
default: mod ];\n}\n\n","/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\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
import {InjectionToken} from '@angular/core';\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\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
import {InjectionToken} from '@angular/core';\n
/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\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 */

import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const CHECKBOX_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => CheckboxControlValueAccessor),
  multi: true,
};

/**\n * @description\n * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input\n * element.
 *
 * @usageNotes\n *
 * ### Using a checkbox with a reactive form.
 *
 * The following example shows how to use a checkbox with a reactive form.
 *\n *\n * ```ts
 * const rememberLoginControl = new FormControl();\n * ```
 *
 * ```
 * <input type="checkbox" [formControl]='rememberLoginControl' />\n * ```
 *
 * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */
@Directive({
  selector:'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]'\n})
export class CheckboxControlValueAccessor implements ControlValueAccessor {
  writeValue(value: any): void {\n    this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
  }

  registerOnChange(fn: any): void {\n    this._onChange = fn;
  }

  registerOnTouched(): void {\n    this._onTouched();
  }

  setDisabledState(isDisabled: boolean): void {\n    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}
normalizedValue = value == null ? '' : value;

this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);

/**
 * Registers a function called when the control value changes.
 */

this.onChange = fn => {
  this._compositionMode && this.onChange(value);
}

/**
 * Registers the value of the control.
 */

this._compositionEnd(value: any): void {
  this._composing = false;
}

/**
 * Registers the value of the control.
 */

this._compositionStart(): void {
  this._composing = true;
}

/**
 * @internal */

this._handleInput(value: any): void {
  if (!this._compositionMode || (this._compositionMode && !this._composing)) {
    this.onChange(value);
  }
}

/**
 * @internal */

this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', value);

/**
 * Sets the disabled property on the input element.
 */

this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);

/**
 * @param fn The callback function
 */

this.onTouched = fn => void (fn);
the control. If the control is not present, `null` is returned.

```typescript
get statusChanges(): Observable<any>null { return this.control ? this.control.statusChanges : null; }
```

Returns an observable of value changes for the control that emits every time the value of the control changes in the UI or programmatically.

```typescript
get valueChanges(): Observable<any|null { return this.control ? this.control.valueChanges : null; }
```

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.

```typescript
get path(): string|null {
  return this.control ? this.control.path : null;
}
```

Returns the path to this group.

```typescript
get formDirective(): FormGroup|null { return null; }
```

Returns the top-level form directive for the control.

```typescript
reset(value: any = undefined): void {
  if (this.control) this.control.reset(value);
}
```

Resets the control with the provided value if the control is present.

```typescript
hasError(errorCode: string, path?: string|number|string): boolean {
  return this.control ? this.control.hasError(errorCode, path) : false;
}
```

Reports whether the given path has the error specified.

```typescript
getError(errorCode: string, path?: string|number|string): any {
  return this.control ? this.control.getError(errorCode, path) : null;
}
```

Reports error data for the control with the given path.

```typescript
hasError(errorCode: string, path?: string|number|string): boolean {
  return this.control ? this.control.hasError(errorCode, path) : false;
}
```

Reports whether the given path has the error specified.

```typescript
getError(errorCode: string, path?: string|number|string): any {
  return this.control ? this.control.getError(errorCode, path) : null;
}
```

Reports error data for the control with the given path.
array of synchronous validators for the control
   * @internal
   */
  _rawValidators:

  /**
   * @description
   * The uncomposed array of async validators for
   * @internal
   */
  _rawAsyncValidators:

  /**
   * @description
   * The registered synchronous validator function for the control
   * @throws An exception that this method is not implemented
   */
  get validator(): ValidatorFn|null { return 

  /**
   * @description
   * The registered async validator function for the control
   * @throws An exception that this method is not implemented
   */
  get asyncValidator(): AsyncValidatorFn|null { return 

  /**
   * @description
   * The callback method to update the model from the view when requested
   * @param newValue The new value for
   */
  abstract viewToModelUpdate(newValue: any): void; 

  /**
   * @description
   * @param
   */
  AbstractControlStatus

  constructor(cd: AbstractControlDirective) { super(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; }

  ngControlStatusHost = {

  

  `@angular/core`\n
  ```typescript
  @Directive({
    selector: '

  })

  ```typescript
  @Directive({
    selector: 'ngControlStatusGroup extends AbstractControlStatus {

  constructor(@Self() cd: ControlContainer) { super(cd); }

  } [class.ng-un touched]: ...

  ```typescript
  ```typescript
  ```typescript
  ```typescript
  ```typescript
  ```typescript
  ```typescript
  ```typescript
  ```typescript
  ...
import { ValidationErrors, AbstractControl } from '@angular/forms';

import { useExisting, CustomValidatorDirective, multi } from '@angular/core';

export class CustomValidatorDirective implements Validator {
  @useExisting() useExisting: CustomValidatorDirective, multi: true)
  validate(control: AbstractControl): ValidationErrors | null {
    return {'custom': true};
  }
}

export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

const EMAIL_REGEXP = /^\[(?![-._]+)\]-+[^@]+\)?|\[[^\]]*\]\(?![-._]+\)\]?@\[(?![-._]+)\]-+[^@]+\)?\](?:\[(?![-._]+)\]-+[^@]+\)?\](?:\[(?![-._]+)\]-+[^@]+\)?\]/;

export class Validators {
  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);
      return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
    };
  }

  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;
    };
  }
}

function isEmptyInputValue(value: any) {
  return value === null || value === undefined;
}

export function max(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);
    return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
  };
}

export function min(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;
  };
}
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```typescript
return isNaN(value) & value > max ? {'max': {'max': max, 'actual': control.value}} : null; } \n }\n} \n```

### Validate that the field is non-empty

```typescript
const control = new FormControl('', Validators.required);\n
```

### Validate that the control's value pass an email validation test.

```typescript
const control = new FormControl('bad@', Validators.email);
```
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
    };
/**
 * @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.
 */

/**
 * @description
 * The registered callback function called when a change event occurs on the input element.
 * @param value The checked value
 */
  writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked',
        this._state);
  }

  /**
   * @description
   * Registers a function called when the control value changes.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (_: any) => {}): void {
    this._fn = fn;
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };
  }

  /**
   * 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);
  }

  private _checkName(): void {
    if (this.name && this.formControlName &&
        this.name !== this.formControlName) {
      this._throwNameError();
    }
    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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 * 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,
import { 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 `ControlFormDirective`,
 * `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(0);
 * const ageControl = new FormControl(0, { min: 0, max: 100 });
 * @param value accessor

  */

class RangeValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when a change
   * or input event occurs on the input.
   */
  onChange: any;

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input.
   */
  onTouched: any;

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {

    /**
     * Sets the "value" property on the input element.
     * @param value The checked value
     */
    writeValue(value: any): void {
      this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
    }

    /**
     * Registers a function called when the control value
     * changes.
     * @param fn The callback function
     */
    registerOnChange(fn: (_: number|null) => void): void {
      this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
    }

    /**
     * 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
     * range input element.
     * @param isDisabled The disabled value
     */
    setDisabledState(isDisabled: boolean): void {
      this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    }
}

let Examples = {
  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 *ngFor="let city of cityArray.controls; index as i">
      <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)]="myGroup.firstName">
    </div>`
};

export const FormErrorExamples = Examples;
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)

```typescript
${Examples.formGroupName}()
```

Option 2: Use ngModel instead of formControlName (template-driven strategy)

```typescript
${Examples.ngModelGroup}()
```

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)

```typescript
${Examples.formGroupName}
```

Option 2: Use ngModel instead of formControlName (template-driven strategy)

```typescript
${Examples.ngModelGroup}```

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.

```typescript
// Example: form = new FormGroup({
  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
  last: new FormControl('Drew', Validators.required)
});
```

For more information on this, see our API docs here: https://angular.io/api/forms/${directiveName}#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 Angular v7.

For more information on this, see our API docs here: https://angular.io/api/forms/${directiveName}#use-with-ngmodel

### Using select controls in a reactive form

The following examples show how to use a select control in a reactive form.

```typescript
const selectedCountriesControl = new FormControl();
```

```typescript
<select [compareWith]="compareFn" [formControl]="selectedCountriesControl">
  <option *ngFor="let country of countries"
       [ngValue]="country">
    {{country.name}}
  </option>
</select>
```

```typescript
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\nfor selects in Firefox and IE:\nhttps://bugzilla.mozilla.org/show_bug.cgi?id=1024350\nhttps://developer.microsoft.com/en-us/microsoft-edge/platform/issues/4660045\n\n* @ngModule ReactiveFormsModule\n* @ngModule FormsModule\n\n@publicApi \n@Directive({\n  selector: \n  'select:not([multiple])[formControlName],select:not([multiple])[formControl]',\n  host: \n  '{(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()',\n  providers: \n  [SELECT_VALUE_ACCESSOR]/\n})\nexport class SelectControlValueAccessor implements \nControlValueAccessor {
  value: any; \n  /** @internal */ @angular /\n  _optionMap: Map<string, any> = new Map<string, any>(); \n  /** @description */ \n  onChange = (_: any) => {};

  /** \n   * @description \n   * The registered callback function called when a change event occurs on the input element. \n   */
  onChange = (_: any) => {};

  /** \n   * @description \n   * The registered callback function called when a blur event occurs on the input element. \n   */
  onTouched = () => {};

  /** \n   * @description \n   * Tracks the option comparison algorithm for tracking identities when\n   * checking for changes.\n   */
  _optionMap.set(id, value);

  /** \n   * @description \n   * Registers a function called when the control changes.\n   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };

  };

  /** \n   * @description \n   * Registers a function called when the control is touched.\n   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }

  /** \n   * @description \n   * Sets the "disabled" property on the select input element.\n   */
  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;

  };

  /** @input */
  _getOptionValue(valueString: string): any {
    const id: string = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;

  };

  /** \n   * @description \n   * Lifecycle method called before the directive's instance is destroyed.\n   */
  ngOnDestroy(): void {
    if (this._select) {
  ```
this._select._optionMap.delete(this.id);\n
this._select.writeValue(this._select.value);\n }\n }\n}\n","/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MITstyle license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,
ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ÉµlooseIdentical as
looseIdentical} from '@angular/core';\n\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
'./control_value_accessor';\n\nexport const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {\n
provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => SelectMultipleControlValueAccessor),\n
multi: true\n};\n\nfunction _buildValueString(id: string, value: any): string {\n if (id == null) return `${value}`;\n if
(typeof value === 'string') value = `'${value}'`;\n if (value && typeof value === 'object') value = 'Object';\n return
`${id}: ${value}`.slice(0, 50);\n}\n\nfunction _extractId(valueString: string): string {\n return
valueString.split(':')[0];\n}\n\n/** Mock interface for HTML Options */\ninterface HTMLOption {\n value:
string;\n selected: boolean;\n}\n\n/** Mock interface for HTMLCollection */\nabstract class HTMLCollection {\n
// TODO(issue/24571): remove '!'.\n length !: number;\n abstract item(_: number): HTMLOption;\n}\n\n/**\n *
@description\n * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
control\n * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel`\n * directives.\n * \n * @see `SelectControlValueAccessor`\n *\n * @usageNotes\n * \n * ### Using a
multi-select control\n * \n * The follow example shows you how to use a multi-select control with a reactive form.\n
* \n * ```ts\n * const countryControl = new FormControl();\n * ```\n *\n * ```\n * <select multiple
name=\"countries\" [formControl]=\"countryControl\">\n * <option *ngFor=\"let country of countries\"
[ngValue]=\"country\">\n * {{ country.name }}\n * </option>\n * </select>\n * ```\n * \n * ### Customizing
option selection\n * \n * To customize the default option comparison algorithm, `<select>` supports `compareWith`
input.\n * See the `SelectControlValueAccessor` for usage.\n *\n * @ngModule ReactiveFormsModule\n *
@ngModule FormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',\n host: {'(change)':
'onChange($event.target)', '(blur)': 'onTouched()'},\n providers:
[SELECT_MULTIPLE_VALUE_ACCESSOR]\n})\nexport class SelectMultipleControlValueAccessor implements
ControlValueAccessor {\n /**\n * @description\n * The current value\n */\n value: any;\n\n /** @internal */\n
_optionMap: Map<string, ÉµNgSelectMultipleOption> = new Map<string, ÉµNgSelectMultipleOption>();\n /**
@internal */\n _idCounter: number = 0;\n\n /**\n * @description\n * The registered callback function called
when a change event occurs on the input element.\n */\n onChange = (_: any) => {};\n\n /**\n * @description\n
* The registered callback function called when a blur event occurs on the input element.\n */\n onTouched = () =>
{};\n\n /**\n * @description\n * Tracks the option comparison algorithm for tracking identities when\n *
checking for changes.\n */\n @Input()\n set compareWith(fn: (o1: any, o2: any) => boolean) {\n if (typeof fn
!== 'function') {\n
throw new Error(`compareWith must be a function, but received ${JSON.stringify(fn)}`);\n
}\n this._compareWith = fn;\n }\n\n private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;\n\n
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}\n\n /**\n * @description\n * Sets
the \"value\" property on one or of more\n * of the select's options.\n *\n * @param value The value\n */\n
writeValue(value: any): void {\n this.value = value;\n let optionSelectedStateSetter: (opt:
ÉµNgSelectMultipleOption, o: any) => void;\n if (Array.isArray(value)) {\n
// convert values to ids\n
const
ids = value.map((v) => this._getOptionId(v));\n
optionSelectedStateSetter = (opt, o) => {
opt._setSelected(ids.indexOf(o.toString()) > -1); };\n } else {\n
optionSelectedStateSetter = (opt, o) => {
opt._setSelected(false); };\n }\n this._optionMap.forEach(optionSelectedStateSetter);\n }\n\n /**\n *
@description\n * Registers a function called when the control value changes\n * and writes an array of the
selected options.\n *\n * @param fn The callback function\n */\n registerOnChange(fn: (value: any) => any):
void {\n this.onChange = (_: any) => {\n
const selected: Array<any> = [];\n
if
(_.hasOwnProperty('selectedOptions')) {\n
const options: HTMLCollection = _.selectedOptions;\n
for (let i
= 0; i < options.length; i++) {\n
const opt: any = options.item(i);\n
const val: any =
this._getOptionValue(opt.value);\n
selected.push(val);\n
}\n
}\n
// Degrade on IE\n
else {\n

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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);
        this.value.push(val);
      }
    }
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   * @param fn The callback function
   * @param registerOnTouched(fn: () => any): void: { this.onTouched = fn; }
   * @param registers The `disabled` property on the select input.
   * @param isDisabled The disabled value.
   */
  constructor(
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * 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._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.
   */
  @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._setElementValueString(this.id, value);
    }
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed.
   * For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }

  /**
   * @description
   * Marks `<option>` as dynamic, so Angular can be notified when
   * options change.
   */
  @internal * @see `SelectMultipleControlValueAccessor`

  @Directive({selector: 'option'})
  export class ɵNgSelectMultipleOption implements OnDestroy {
    // TODO(issue/24571): remove '!'.
    id!: string;
    
    constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
      if (this._select) {
        this.id = this._select._registerOption(this);
      }
    }

    /**
     * Tracks simple string values bound to the option element.
     * For objects, use the `ngValue` input binding.
     */
    @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._setElementValueString(this.id, value);
      }
    }

    /**
     * Lifecycle method called before the directive's instance is destroyed.
     * For internal use only.
     */
    ngOnDestroy(): void {
      if (this._select) {
        this._select._optionMap.delete(this.id);
        this._select.writeValue(this._select.value);
      }
    }

    export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

    import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';
    import {FormArray, FormControl, FormGroup} from '../model';
    import {Validators} from '../validators';
    import {FormArrayName} from './reactive_directives/form_group_name';
    import {ReactiveErrors} from './reactive_errors';
  }

  export {SelectControlValueAccessor as NgSelectControlValueAccessor};
  export {SelectMultipleControlValueAccessor as NgSelectMultipleControlValueAccessor};

  export {NgSelectControlValueAccessor};
  export {NgSelectMultipleControlValueAccessor};

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 (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');
  if (!dir.valueAccessor!.registerOnValidatorChange)
    dir.valueAccessor!.registerOnValidatorChange(() => control.updateValueAndValidity());

  if (!dir.valueAccessor!.registerOnChange)
    dir.valueAccessor!.registerOnChange(() => control.updateValueAndValidity());

  if (!dir.valueAccessor!.registerOnTouched)
    dir.valueAccessor!.registerOnTouched(() => control.updateValueAndValidity());

  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());
  });
}

export 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 _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path!.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path ![0]) {
    messageEnd = `name: '${dir.path}'`;
  } else {
    messageEnd = 'unspecified name attribute';
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return Validators.compose(validators.map(normalizeValidator));
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>):
  AsyncValidatorFn|null {
  return Validators.composeAsync(validators.map(normalizeAsyncValidator));
}

function normalizeValidator(validator: Validator | ValidatorFn): ValidatorFn {
  return validator && validator.registerOnValidatorChange ? {
    registerOnValidatorChange: (fn: Function) => fn(validator)
  } : null;
}

function normalizeAsyncValidator(asyncValidator: AsyncValidator | AsyncValidatorFn):
  AsyncValidatorFn {
  return asyncValidator && asyncValidator.registerOnValidatorChange ? {
    registerOnValidatorChange: (fn: Function) => fn(asyncValidator)
  } : 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, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor, unexport function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean { return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a); } unexport 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; } }); unexport function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean { return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a); } unexport function syncPendingControls(form: FormGroup, directives: NgControl[]); void { form._syncPendingControls(); } directives.forEach(dir => { const control = dir.control as FormControl; 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AbstractControlOptions | null): ValidatorFn
null (\n const validator =\n (isOptionsObj(validatorOrOpts) ?
 (validatorOrOpts as AbstractControlOptions).validators : validatorOrOpts) as ValidatorFn
null | ValidatorFn[] | null;\n\nreturn Array.isArray(validatorOrOpts) ? composeValidators(validator) : validator ||
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return AsyncValidatorFn
"blur" | 'submit';\n\nfunction isOptionsObj(\n validatorOrOpts?: ValidatorFn |
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* The event name for control to update upon.\n *\n* **
control is 'disabled' when its 'status' is 'DISABLED'.

* Disabled controls are exempt from validation checks and

* are not included in the aggregate value of their ancestor

* controls.

* @see { @link AbstractControl.status}.*

* @returns True if the control is disabled, false otherwise.

* get disabled(): boolean { return this.status === DISABLED; }

* @returns True if the control has any status other than 'DISABLED';

* false if the status is 'DISABLED'.

* @see { @link AbstractControl.status}

* get enabled(): boolean { return this.status !== DISABLED; }

* An object containing any errors generated by failing validation,

* or null if there are no errors.

* // TODO(issue/24571): remove '!'.

* public readonly errors!: ValidationErrors |

* null;

* 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 of this control in the UI; compare 'dirty'.

* Programmatic changes to a control's value do not mark it dirty.

* public readonly pristine: boolean = true;

* A control is 'dirty' if the user has changed the value

* in the UI.

* @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.

* without passing along

* @param opts Configuration options that determine how the control propagates changes

* in the UI at event time.

* @returns Observable<any>.

* A multicasting observable that emits an event every time the validation status of the control

* recalculates.

* @see { @link AbstractControl.status}

* get enabled(): boolean { return this.pristine; }

* True if the control is marked as 'touched'.

* A control is marked 'touched' once the user has triggered

* a 'blur' event on it.

* public readonly touched: boolean = false;

* A control is 'untouched' if the user has not yet triggered

* a 'blur' event on it.

* get untouched(): boolean { return !this.touched; }

* A multicasting observable that emits an event every time the value of the control changes, in the UI.

* It also emits an event each time you call enable() or disable().

* A control is `untouched` if the user has not been marked as touched.

* A control is `touched` once the user has triggered a 'blur' event on it.

* A control is `dirty` if the user has not yet changed it.

* public readonly pristine: boolean = true;

* A control is `dirty` if the user has not yet changed the value.

* in the UI.

* True if the user has not yet changed the value in the UI; compare 'dirty'.

* public readonly touching(): boolean { boolean { return !this.touched; }

* A control is `touched` once the user has triggered a 'blur' event on it.

* public readonly touched: boolean = false;

* A control is 'untouched' if the user has not yet triggered

* a 'blur' event on it.

* get untouched(): boolean { return !this.touched; }

* A multicasting observable that emits an event every time the value of the control changes, in the UI.

* It also emits an event each time you call enable() or disable().

* Without passing along

* emitEvent: false as a function argument.

* // TODO(issue/24571): remove '!'.

* public readonly valueChanges!: Observable<any>.

* A multicasting observable that emits an event every time the

* validation strategy of the 'AbstractControl' (meaning

* the event on which the control updates itself).

* Possible values: "change" | "blur" | "submit".

* Default value: "change".

* get updateOn(): FormHooks { return this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : 'change'); }

* 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

* `updateValueAndValidity()` for the new validation to take effect.

* set Validators(newValidator: ValidatorFn|ValidatorFn[] | null): void { this.validator = coerceToValidator(newValidator); }

* Set the async validators that are active on this control.

* Calling this

* overwrites any existing async validators.

* When you add or remove a validator at run time, you must call

* `updateValueAndValidity()` for the new validation to take effect.

* set AsyncValidators(newAsyncValidator: AsyncValidatorFn|AsyncValidatorFn[] | null): void { this.asyncValidator = coerceToAsyncValidator(newAsyncValidator); }

* A control is `dirty` if the user has not yet changed the value.

* in the UI.

* The attribute `dirty` is programmatically set to false when

* a value is loaded.

* @param opts Configuration options that determine how the control propagates

* changes and emits events after marking is applied.

* * onlySelf: true if this control is disabled; otherwise

* null; this._parent; }

* this._parent; marks all descendants as

* 'touched'.

* @returns Mark the control and all its descendant controls as

* 'touched'.

* marksAllAsTouched(): void { this.markAsTouched({onlySelf: true}); }

* this._forEachChild((control: AbstractControl) => control.markAllAsTouched());

* Marks the control as `untouched`.

* If the control has any children, also marks all children as `untouched`.
* and recalculates the ‘touched’ status of all parent controls.
* and emits events after the marking is applied.
* * `markAsUntouched()`
* @see `markAsDirty()`
* @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 {{onlySelf?: boolean}} {opts}:
* `markAsUntouched()`: false;
* this._forEachChild(
  control: AbstractControl => {
    control.markAsUntouched({onlySelf: true});
  });

* `markAsDirty()`: false;
* this._forEachChild(
  control: AbstractControl => {
    control.markAsDirty({onlySelf: true});
  });

* `markAsPristine()`: false;
* this._forEachChild(
  control: AbstractControl => {
    control.markAsPristine({onlySelf: true});
  });

* `markAsPending()`: false;
* this._forEachChild(
  control: AbstractControl => {
    control.markAsPending({onlySelf: true});
  });

* `disable()`: false;
* this._forEachChild(
  control: AbstractControl => {
    control.disable();
  });

* `enable()`: false;
* this._forEachChild(
  control: AbstractControl => {
    control.enable();
  });
default, if the control has children, all children are enabled.

```typescript
* @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.

```typescript
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._updateAncestors({...opts, skipPristineCheck: false});
  this._onDisabledChange.forEach((changeFn) => changeFn(false));
}
```

```typescript
updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): 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.
  // `updateValueAndValidity` updates the value and validity of the control and its ancestors.

  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);
  }

  if (this._parent && !opts.onlySelf) {
    this._parent.updateValueAndValidity(opts);
  }
}
```

```typescript
getErrors(): ValidationErrors | null {
  return this.validator ? this.validator(this) : null;
}
```

```typescript
parentMarkedDirty(onlySelf: boolean): boolean {
  return this._isDirty && (this.onlySelf || opts.onlySelf);
}
```
```typescript
/**
 * Checks 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();
}

/**
 * Tracks the value and validation status of an individual form control.
 * This is one of the three fundamental building blocks of Angular forms, along with
 * `FormGroup` and `FormArray`. It extends the `AbstractControl` class that
 * implements most of the base functionality for accessing the value, validation status,
 * user interactions and events.
 */
export class FormControl extends AbstractControl {
  /** @internal */
  _onChange: Function[] = [];
  /** @internal */
  _isBoxedValue(formState: any): boolean {
    return typeof formState ==='object' && formState !== null &&
    Object.keys(formState).length == 2 &&
    typeof 'value' in formState &&
    'disabled' in formState;
  }

  /** @internal */
  _registerOnCollectionChange(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();
  }

  /**
   * Creates a new `FormControl` instance.
   *
   * @param formState Initializes the control with an initial value,
   * or an object
   * that defines the initial value and disabled state.
   *
   * @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
   * or
   * an object that defines the initial value and disabled state.
   *
   * @param validatorOrOpts A synchronous validator function,
   * or an array of
   * such functions, or an `AbstractControlOptions` object that contains validation functions
   * and a
   * validation trigger.
   *
   * @publicApi
   */
  constructor(
      formState: any = null,
      validatorOrOpts?:
      ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?:
      AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super( coerceToValidator(validatorOrOpts),
      coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._applyFormState(formState);
    this._setUpdateStrategy(validatorOrOpts);
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
  }

  /**
   * 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.
   * @param options Configuration options that determine how the control propagates
   * changes and emits events when the value changes.
   */
  setMaxNativeValue(value: any, opts?: any): void {
    this._pendingValue = value;
    this._pendingChange = new FormControl(value); this._pendingChange._reset();
    this._onChange.forEach(fn => fn());
    this._fireValueChanged();
    this._invalidateDirtyState();
    this._notifyDirtyState();
  }
```

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AbstractControl#updateValueAndValidity
   * updateValueAndValidity} method.
   *
   * * `onlySelf`: When true or not supplied (the default), each change triggers an
   * 'onChange' event to
   * update the view.
   * * `emitViewToModelChange`: When true or not supplied (the default), each change triggers an
   * event to update the model.
   *
   * * `ngModelChange` * event to update the model.
   *
   * * `emitValueNotificationsChange`: When true or not supplied (the default), each change triggers an
   * event to update the model.
   *
   * * `ngModelChange` * event to update the model.
   *
   * * `onlySelf`: When true, each change only affects this control, and not its parent. Default is
   * * `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.
   * * `onlySelf`: When false, no events are emitted.
   *
   * * `emitModelToViewChange`: When true or not supplied (the default), each change triggers an
   * `onChange`
   * event to trigger an `onChange`
   * event to update the model.
   *
   * * `emitModelToViewChange`: When true or not supplied (the default), each change triggers an
   * `onChange`
   * event to update the model.
   *
   * * `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.
   * * `onlySelf`: When false, no events are emitted.
   *
   * * `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.
   * * `onlySelf`: When false, no events are emitted.
   *
   * * `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.
   * * `onlySelf`: When false, no events are emitted.
form = new FormGroup({'first': new FormControl('Nancy', Validators.minLength(2)),
                   'last': new FormControl('Drew')});

console.log(form.value);   // {first: 'Nancy', last: 'Drew'}

console.log(form.status);  // 'VALID'

### Create a form group with a group-level validator

You include group-level validators as the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control. In new FormGroup({ 'first': Validators.required }, { Validators.minLength(2) }),

function passwordMatchValidator(g: FormGroup) { return g.get('password').value === g.get('passwordConfirm').value; },

validators: passwordMatchValidator, asyncValidators: other Validators })

### Set the updateOn 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 control has explicitly specified a different ‘updateOn’ value, all the controls default to ‘blur’, unless the child control has explicitly specified a different ‘updateOn’ value. This method does not update the value or validity of the control. Use `@formGroup#addControl addControl` instead.

### Replace an existing control

Replace an existing control on the collection in the control. This method also updates the value and validity of the control.

The control name to add to the collection on the parent control. This method replaces the control for the given name with a new control. This method also updates the value and validity of the control. The control name to add to the collection on the parent control. This method replaces the control for the given name with a new control. This method also updates the value and validity of the control.

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The control name to add to the collection on the parent control. This method replaces the control for the given name with a new control. This method also updates the value and validity of the control.
Sets the value of the `FormGroup`. It accepts an object that matches the structure of the group, with control names as keys. The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity | updateValueAndValidity }` method.

### Set the complete value for the form group

```ts
const form = new FormGroup({
  first: new FormControl(),
  last: new FormControl()
});
form.setValue({first: 'Nancy', last: 'Drew'});
```

### Patch the value for a form group

```ts
form.patchValue({first: 'Nancy'});
```

### Reset the form group values

```ts
form.reset({first: 'name', last: 'last name'});
```

The configuration options are passed to the `{ @link AbstractControl#updateValueAndValidity | updateValueAndValidity }` method.
last: 'last
}));
* * console.log(this.form.value); // {first: 'name', last: 'last name'}
* console.log(this.form.get('first').status); // DISABLED
* */
* reset(value: any = {}), options: {onlySelf?: boolean, emitEvent?: boolean} = {}); void {\n  this._forEachChild((control: AbstractControl, name: string) => {
    \n    control.reset(value[name], {onlySelf: true, emitEvent: options.emitEvent});
  });
}

/** 
 * 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`.
 */

getRawValue(): any {\n  return this._reduceChildren({}, (acc, [k: string]: AbstractControl, control: string: name: string) => {
    acc[name] = control
  });
}

** * @internal */

/_syncPendingControls(): boolean {\n  let subtreeUpdated = this._reduceChildren(false, (updated: boolean, child: AbstractControl) => {
    return child._syncPendingControls();
  });
  return subtreeUpdated;
}

/** @internal */

/_throwIfControlMissing(name: string): void {\n  void if (!Object.keys(this.controls).length) {\n    throw new Error('There are no form controls registered with this group yet. If you’re using ngModel, you may want to check next tick (e.g. use setTimeout).');
  }
  throw new Error('Cannot find form control with name: ${name}.');
}

/** * Set of an options object.
 */

const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], {validators: myValidator, asyncValidators: myAsyncValidator});

console.log(arr.value);   // ['Nancy', 'Drew']
console.log(arr.status);  // 'VALID'

```ts
const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], {validators: myValidator, asyncValidators: myAsyncValidator});
```
new FormArray([\n * new FormControl()\n * ], { updateOn: 'blur' });\n * ```
 *
 * ### Adding or removing
 * controls from a form array
 * To change the controls in the array, use the ‘push’, ‘insert’, ‘removeAt’ or ‘clear’
 * methods\n * in ‘FormArray’ itself. These methods ensure the controls are properly tracked in the\n * form’s hierarchy. Do not modify the array of ‘AbstractControl’ s used to instantiate\n * the ‘FormArray’ directly, as that result in strange and unexpected behavior such\n * as broken change detection.\n *
 * ```
 *
 * @param validatorOrOpts A synchronous validator function, or an array of\n * such functions, or an\n * `AbstractControlOptions` object that contains validation functions\n * and a validation trigger.\n *
 * ```
 *
 * export\n * ```
 *
 * class FormArray extends AbstractControl {\n *   \n *   constructor(\n *     public\n *     this._initObservables();\n *     this._setUpControls();\n *     this.updateValueAndValidity({onlySelf: true, emitEvent: false});\n *   ) {\n *     \n *     this.push(control: AbstractControl): void {\n *       this.controls.push(control);
 *       this._registerControl(control);
 *       this.updateValueAndValidity();
 *     }\n *   }\n *
 *   setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n *     this._checkAllValuesPresent(value);
 *     value.forEach((newValue: any, index: number) => {\n *       this._throwIfControlMissing(index);
 *       this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
 *     });
 *   }\n * }\n * ```

to the correct controls in the group.

* * * It accepts both super-sets and sub-sets of the array without throwing an error.

* * *

### Patch the values for controls in a form array

#### @usageNotes

#### ### Patch the values for controls in a form array

```ts
const arr = new FormArray([<FormControl>, <FormControl>]);
console.log(arr.value);  // [null, null]
arr.patchValue([<Nancy>]);
console.log(arr.value);  // [<Nancy>, null]
```

* * *

#### @usageNotes

#### @param value Array of latest values for the controls

* * *

#### onlySelf': When true, each change only affects this control, and not its parent. Default:* * *

#### `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges`

* * *

observes 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](#updateValueAndValidity) method.

### Reset the values in a form array

```ts
const arr = new FormArray([
    new FormControl(),
    new FormControl()
  ]);  
arr.reset([<name>, <last name>]);
```

```ts
while (arr.length) {
  arr.removeAt(0);
}
```
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).

```typescript
    this.controls.forEach((control, index) => { cb(control, index); });
    this._forEachChild(cb);
    if (this.disposed) return;
    return ngModelGroup.map((control) => control.value);
```

```typescript
    this._checkAllValuesPresent(value);  
    this._setUpControls();
    this._anyControls(condition);
    this._checkAllValuesPresent(value);
    this._updateValue();
    this._forEachChild(cb);  
    this._checkAllValuesPresent(value);
    this._anyControls(condition);
```

```typescript
    this._checkAllValuesPresent(value);
    this._setUpControls();
    this._checkAllValuesPresent(value);
    this._anyControls(condition);
    this._checkAllValuesPresent(value);
    this._updateValue();
    this._forEachChild(cb);
    this._checkAllValuesPresent(value);
    this._anyControls(condition);
```

```typescript
    this._checkAllValuesPresent(value);
    this._setUpControls();
    this._checkAllValuesPresent(value);
    this._anyControls(condition);
    this._checkAllValuesPresent(value);
    this._updateValue();
    this._forEachChild(cb);
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    this._checkAllValuesPresent(value);
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    this._anyControls(condition);
    this._checkAllValuesPresent(value);
    this._updateValue();
    this._forEachChild(cb);
    this._checkAllValuesPresent(value);
    this._anyControls(condition);
```
@publicApi
*/
@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm],
  providers: [formDirectiveProvider],
  host: {'(submit)': onSubmit(Seventh), '(reset)': onReset()},
  outputs: ['ngSubmit'],
  exportAs: 'ngForm'
})
export class NgForm extends ControlContainer implements Form,
AfterViewInit {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;
  private _directives: NgModel[] = [];

  /**
   * The `FormGroup` instance created for this form.
   */
  form: FormGroup;

  /**
   * @description
   * Lifecycle method called after the view is initialized. For internal use only.
   */
  ngAfterViewInit() { this._setUpdateStrategy(); }

  /**
   * @description
   * The directive instance.
   */
  get formDirective(): Form { return this; }

  /**
   * @description
   * The internal `FormGroup` instance.
   */
  get control(): FormGroup { return this.form; }

  /**
   * @description
   * Returns an array representing the path to this group. Because this directive
   * always lives at the top level of a form, it is always an empty array.
   */
  get path(): string[] { return []; }

  /**
   * @description
   * Returns a map of the controls in this group.
   */
  get controls(): {
    [key: string]: AbstractControl
  } { return this.form.controls; }

  /**
   * @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.
   */
  addControl(dir: NgModel): void {
    ... (implementation details)
  }

  /**
   * @description
   * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance
   */
  getFormGroup(dir: NgModelGroup): FormGroup { return <FormGroup>this.form.get(dir.path); }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive instance.
   */
  updateModel(dir: NgControl, value: any): void {
    ... (implementation details)
  }

  setValue(value: {
    [key: string]: any
  }): void { this.control.setValue(value); }
Method called when the `\$submit\` event is triggered on the form. Triggers the `ngSubmit` emitter to emit the `\$submit\` event as its payload. Returns the new value for the form.

```typescript
/**
 * @description
 * Method called when the "submit" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
 *
 * @param $event The "submit" event object
 * @description
 * Method called when the "reset" event is triggered on the form.
 * Resets the form to an initial value and resets its submitted status.
 * @param value The new value for the form.
 */

export function syncPendingControls(form: Form, directives: ControlContainer[]): void {
  form._updateOn = directives.reduce((synced, directive) => {
    if (directive instanceof FormGroup) {
      return syncPendingControls(form, directive.directives);
    }
    if (directive instanceof Form){
      form._updateOn = directives.reduce((synced, directive) => {
        if (directive instanceof FormGroup) {
          return syncPendingControls(form, directive.directives);
        }
        return synced;
      }, form._updateOn);
    }
    return synced;
  }, form._updateOn);
}
```

**LICENSE**

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:

      Example:

    `);}

  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):

      Example:

    `);}

  static missingNameException() {
    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:

      Example:

    `);}

  static formGroupNameException(): void {
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      Example:

    `);}

  static missingNameException() {
    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:

      Example:

    `);}
'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.`
  );
}

modelGroupParentException()

Example 1: <input 
[(ngModel)]="person.firstName"
name="first">
Example 2: <input 
[(ngModel)]="person.firstName"
[ngModelOptions]="{standalone: true}">;

Example 1: <input 
[(ngModel)]="person.firstName"
name="first">
Example 2: <input 
[(ngModel)]="person.firstName"
[ngModelOptions]="{standalone: true}">;

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    `ngModelGroup cannot be used with a parent formGroup directive.`
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modelGroupParentException()

Example 1: <input 
[(ngModel)]="person.firstName"
name="first">
Example 2: <input 
[(ngModel)]="person.firstName"
[ngModelOptions]="{standalone: true}">;

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[(ngModel)]="person.firstName"
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[(ngModel)]="person.firstName"
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[(ngModel)]="person.firstName"
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[(ngModel)]="person.firstName"
[ngModelOptions]="{standalone: true}">;

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[(ngModel)]="person.firstName"
name="first">
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[(ngModel)]="person.firstName"
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[ngModelOptions]="{standalone: true}">;

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.`
  );
}

modelGroupParentException()
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 * - this is just one extra run no matter how many `ngModel` have been changed.\n * - this is a general problem when using `exportAs` for directives\n * -\n * Notes:\n * - Promise.resolve(null))\n * @description\n * Creates a `FormControl` instance from a domain model and\n * binds it\n * to a form control element.\n * The `FormControl` instance tracks the value, user interaction, and\n * validation status of the control and keeps the view synced with the model. If used\n * within a parent form, the\n * directive also registers itself with the form as a child\n * control.\n * This directive is used by itself or as part of a\n * larger form. Use the\n * `*ngModel` selector to activate it.\n * It accepts a domain model as an optional `Input`.\n * If you have a one-way binding\n * to `ngModel` with `[]` syntax, changing the value of the domain model in the\n * component\n * class sets the value in the view. If you have a two-way binding with `[()]` syntax\n * (also known as\n * `banana-box` syntax), the value in the UI always syncs back to\n * the domain model in your class.\n * To inspect the properties of the associated `FormControl` (like validity state),\n * export the directive into a local\n * template variable using `ngModel` as the key (ex: `#myVar="ngModel\n * ") You then access the control using the directive's `control` property,\n * but most properties used (like `valid` and `dirty`) fall through to the control\n * anyway for direct access.\n * See a full list of properties directly available in `AbstractControlDirective`.\n * @see `RadioControlValueAccessor`\n * @see `SelectControlValueAccessor`\n * @usageNotes\n * Notes:\n * - this is just one extra run no matter how many `ngModel` have been changed.\n * - this is a very common case for `ngModel`, we added this second change\n * detection run.\n * -\n * Notes:\n * -\n * Notes:\n * -
```typescript
this._checkName();
private _checkParentType(): void {
if (this._parent instanceof NgModelGroup) {
TemplateDrivenErrors.formGroupNameException();
} else if (this._parent instanceof NgModelGroup) {
TemplateDrivenErrors.modelParentException();
}
}

private _checkParentType(): void {
if (!(this._parent instanceof NgModelGroup) &&
this._parent instanceof AbstractFormGroupDirective) {
TemplateDrivenErrors.formGroupNameException();
}
}

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();
}
});
}
```
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 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 to template-driven directives. After (choice 1 - use reactive forms):

```html
<input [formControl]='control' [disabled]='isDisabled'>
```

```ts
this.control.setValue('some value');
this.isDisabled = true;
```

After (choice 2 - use template-driven forms):

```html
<input [(ngModel)]=value [disabled]='isDisabled'>
```

```ts
this.value = 'some value';
this.isDisabled = true;
```

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 the `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.

* @Directive({selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm']})

```ts
FormControlDirective extends NgControl implements OnChanges {
  viewModel: any;

  form!: FormControl;

  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});
      this.viewModel = this.model;
    }
  }

  get path(): string[] { return []; }

  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  get asyncValidator(): AsyncValidatorFn|null { return composeValidators(this._rawAsyncValidators); }

  @Output('ngModelChange') update = new EventEmitter();

  private _isControlChanged(changes: SimpleChanges): boolean {
    return !isPropertyUpdated(changes, this.viewModel);
  }

  setUpControl(control: any, form: FormGroup): void {
    if (control) {
      this.viewModel = control;
      this.form = form;
    }
  }
```

* @export

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 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 to template-driven directives. After (choice 1 - use reactive forms):

```html
<input [formControl]='control' [disabled]='isDisabled'>
```

```ts
this.control.setValue('some value');
this.isDisabled = true;
```

After (choice 2 - use template-driven forms):

```html
<input [(ngModel)]=value [disabled]='isDisabled'>
```

```ts
this.value = 'some value';
this.isDisabled = true;
```

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 the `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.

* @Directive({selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm']})

```ts
FormControlDirective extends NgControl implements OnChanges {
  viewModel: any;

  form!: FormControl;

  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});
      this.viewModel = this.model;
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl',
        FormControlDirective, this, _ngModelWarningConfig); _ngModelWarning(config: string|null) {
        return composeValidators(this._rawValidators);}
      if (isPropertyUpdated(changes, this.viewMode) {
        this.form.setValue(this.model);
      }
    }
```
asyncValidator(): AsyncValidatorFn|null { 
  return composeAsyncValidators(this._rawAsyncValidators); 
} 

/** *
 * The `FormControl` bound to this directive. *
 * @param getControl: FormControl { return this.form; } 
 */ 

/** *
 * Sets the new value for the view model and emits an *
 * `ngModelChange` event. *
 * @param newValue The new value for the view model. *
 * @param viewToModelUpdate: (newValue: any): void { this.viewModel = newValue; this.update.emit(newValue); } 
 */ 

private _isControlChanged(changes: { [key: string]: any }): boolean { return changes.hasOwnProperty('form'); } 

/** *
 * Reports whether the form submission has been triggered. *
 * @param onChanges: OnChanges { 
 */ 

/** *
 * Returns this directive's instance. *
 * @param getControl: FormControl { return this.form; } 
 */ 

/** *
 * Tracks the list of added `FormControlName` instances. *
 * @param asyncPendingControls: { 
 */ 

/** *
 * Returns the `FormGroup` bound to this directive. *
 * @param Input('formGroup'): FormGroup = null; 
 */ 

/** *
 * Emits an event when the form submission has been triggered. *
 * @param Output(): EventEmmitter { 
 */ 

/** *
 * A lifecycle method called when the directive's inputs change. For internal use only. *
 * @param changes: SimpleChanges; void { 
 */ 

/** *
 * Returns this directive's instance. *
 * @param getFormDirective: FormGroupDirective extends ControlContainer implements 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. *
 * @param addControl: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * 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. *
 * @param _formInterface: FormGroupName: FormBuilder { 
 */ 

/** *
 * Returns a FormGroup to the DOM element. *
 * @param _formDirectiveProvider: any { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * 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. *
 * @param constructor: FormGroupName: FormBuilder { 
 */ 

/** *
 * Returns this directive's instance. *
 * @param _validators: any[]; 
 */ 

/** *
 * A lifecycle method called when the directive's inputs change. For internal use only. *
 * @param changes: SimpleChanges; void { 
 */ 

/** *
 * The `FormControl` bound to this directive. *
 * @param getControl: FormControl { return this.form; } 
 */ 

/** *
 * Sets the new value for the view model and emits an *
 * `ngModelChange` event. *
 * @param newValue The new value for the view model. *
 * @param viewToModelUpdate: (newValue: any): void { this.viewModel = newValue; this.update.emit(newValue); } 
 */ 

/** *
 * @description *
 * @param _control_container: FormGroupName: FormBuilder { 
 */ 

/** *
 * The `FormGroup` instance to match any child `FormControl`, `FormGroup`, and *
 * `FormArray` instances to child `FormControlName`, `FormGroupName`, and `FormArrayName` directives. *
 * @param _formDirectiveProvider: any { 
 */ 

/** *
 * Returns the `FormGroup` bound to this directive. *
 * @param getControl: FormControl { return this.form; } 
 */ 

/** *
 * Tracks the list of added `FormControlName` instances. *
 * @param asyncPendingControls: { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns this directive's instance. *
 * @param getControl: FormControl { return this.form; } 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns a FormGroup to the DOM element. *
 * @param _formDirectiveProvider: any { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns the `FormGroup` bound to this directive. *
 * @param Input('formGroup'): FormGroup = null; 
 */ 

/** *
 * Emits an event when the form submission has been triggered. *
 * @param Output(): EventEmmitter { 
 */ 

/** *
 * A lifecycle method called when the directive's inputs change. For internal use only. *
 * @param changes: SimpleChanges; void { 
 */ 

/** *
 * Returns this directive's instance. *
 * @param getControl: FormControl { return this.form; } 
 */ 

/** *
 * Tracks the `FormGroup` bound to this directive. *
 * @param Input('formGroup'): FormGroup = null; 
 */ 

/** *
 * Emits an event when the form submission has been triggered. *
 * @param Output(): EventEmmitter { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns a FormGroup to the DOM element. *
 * @param _formDirectiveProvider: any { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns a FormGroup to the DOM element. *
 * @param _formDirectiveProvider: any { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns a FormGroup to the DOM element. *
 * @param _formDirectiveProvider: any { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns a FormGroup to the DOM element. *
 * @param _formDirectiveProvider: any { 
 */ 

/** *
 * A 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: FormControlName: FormControl { return this.form.get(dir.path); } 
 */ 

/** *
 * Returns a FormGroup to the DOM element. *
 * @param _formDirectiveProvider: any { 
 */

/* * */

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this.directives.push(dir);
    return ctrl;
  }/**
   * @description
   * Retrieves the 'FormControl' instance from the provided 'FormGroupName' directive.
   *
   * @param dir The 'FormGroupName' directive instance.
   */
  getFormGroup(dir: FormGroupName): FormGroup {
    return <FormGroup>this.form.get(dir.path);
  }

  /**
   * @description
   * Retrieves the 'FormArray' instance from a provided 'FormArrayName' directive instance.
   *
   * @param dir The 'FormArrayName' directive instance.
   */
  getFormArray(dir: FormArrayName): FormArray {
    return <FormArray>this.form.get(dir.path);
  }

  /**
   * @description
   * Sets the new value for the provided 'FormGroupName' directive.
   *
   * @param dir The 'FormGroupName' directive instance.
   */
  updateModel(dir: FormGroupName, value: any): void {
    const ctrl: FormControl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  }

  /**
   * @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;
  }

  /** @internal */
  _updateDomValue() {
    this.directives.forEach(dir => {
      const newCtrl: FormControl = <FormControl>this.form.get(dir.path);
      if (dir.control !== newCtrl) {
        cleanUpControl(dir.control, dir);
        if (newCtrl) setUpControl(newCtrl, dir);
        (dir as {control: FormControl}).control = newCtrl;
      }
    });
    this.form._updateTreeValidity({emitEvent: false});
  }

  private _updateRegistrations() {
    this.form._registerOnCollectionChange(() => this._updateDomValue());
    if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
    this._oldForm = this.form;
  }

  private _updateValidators() {
    const sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator!, sync!]);
    const async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator!, async!]);
    if (this._asyncValidators) this._asyncValidators = composeAsyncValidators(this._asyncValidators);
  }

  private _checkFormPresent() {
    if (!this.form) {
      ReactiveErrors.missingFormException();
    }
  }

  /**
   * @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 {Directive, Host, Inject, Input, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';
  import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
  import {ControlContainer} from '../control_container';
  import {ReactiveErrors} from '../reactive_errors';
  import {composeAsyncValidators,
import {AsyncValidatorFn, ValidatorFn} from 'angular2/validators';
import {FormGroupDirective} from 'angular2/form_group_directive';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 *
 * This directive can only be used with a parent `FormGroupDirective`. It accepts
 * the string name of the nested `FormGroup` to link, and looks for a `FormGroup`
 * registered with that name in the parent. Use nested form groups to validate a
 * sub-group of an element separately from the rest or to group the values of certain
 * controls into their own nested object.
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 *
 * @usageNotes
 *
 * ### Access the group by name
 *
 * The following example uses the `formGroupName` to access the associated
 * `FormGroup`. The example selects a `FormGroup` with the name `name`.
 *
 * ```ts
 *   this.form.get('name');
 * ```
 *
 * ### Access individual controls in the group
 *
 * The following example uses the `this.form.get(name)` method to access individual
 * controls 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`.
 *
 * ```ts
 *   this.form.get('name');
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '[formGroupName]', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * Tracks the name of the `FormGroup` bound to the directive. The name corresponds
   * to a key in the parent `FormGroup` or `FormArray`. 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 groups to be bound to indices when iterating over groups in a `FormArray`.
   */
  // TODO(issue/24571): remove '!'.
  @Input('formGroupName') 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[])
  }

export const formArrayNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormArrayName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 *
 * This directive is designed to be used with a parent `FormGroupDirective` (selector:
 * `formGroupName`), and provides methods to retrieve the nested `FormArray` and
 * individual controls.
 *
 * The following example registers a nested `FormArray` with the name `name`.
 *
 * ```ts
 *   this.form.get('name');
 * ```
 *
 * @usageNotes
 *
 * ### Example
 *
 * ```ts
 *   this.form.get('name.first');
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '[formArrayName]', providers: [formArrayNameProvider]})
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /**
   * Tracks the name of the `FormArray` bound to the directive. The name corresponds
   * to a key in the parent `FormArray`. 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`.
   */
  // 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[])
  }

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parent.
 */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective.addFormArray(this);
  }

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormArray(this);
    }
  }

  /**
   * @description
   * A lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective.addFormArray(this);
  }

  /**
   * @description
   * The `FormArray` bound to this directive.
   */
  get control(): FormArray { return this.formDirective.getFormArray(this); }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  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.
   */
  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.
   */
  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);
  }

  private _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.arrayParentException();
    }
  }

  function _hasInvalidParent(parent: ControlContainer): boolean {
    return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
    !(parent instanceof FormArrayName);
  }

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 
 * `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form
 * controls within a form group
 * and set their value.
 *
 * ```
 * <form >
 *   <input formControlName="first" [(ngModel)]="value">
 * </form>
 * ```
 *
 * ```
 * 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 `ngModel`'s updating 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 within
* reactive form directives (and get/set values using reactive
forms patterns) or switch over to
* template-driven directives.

```
* <form [formGroup]='form'>
*   <input formControlName='first' />
* </form>
```

```
```ts
* this.form.get('first').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:

```
* import {ReactiveFormsModule} from '@angular/forms';
* ```

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.

```
* @Input('ngModel') model: any;
```

```
* @Output('ngModelChange') update = new EventEmitter();
```

```
```ts
* static _ngModelWarningSentOnce = false;
```

```
* constructor():
*   this.valueValidator = this.valueAccessors[0];
*   this.valueConstraint = this.valueAccessors[1];
*   this.valueValidator
```

```
AbstractControl): ValidationErrors|null {\n  return this._enabled ? Validators.email(control) : null;\n}\n\n/**\n * @description
 * A function that receives a control and synchronously returns a map of ValidationErrors or null.
 * The function may return ValidationErrors if present, otherwise null.
 * @publicApi
 * @export interface ValidatorFn
 * (control: AbstractControl): ValidationErrors|null {
 *   return this._enabled ? Validators.email(control) : null;
 * }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * The callback function\n   * registerOnValidatorChange(fn: () => void): void {\n   *   this._onChange = fn;\n   *}\n   * @param fn\n   * A function that receives a control and returns a Promise or observable\n   * that emits validation errors if present, otherwise null.
   * @publicApi\n   * @export interface AsyncValidatorFn
   * (control: AbstractControl): Promise<ValidationErrors>null|
   * Observable<ValidationErrors>null >;\n   * @description\n   * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
   * @param name\n   * MIN_LENGTH_VALIDATOR: any = {\n   *   provide: NG_VALIDATORS,\n   *   useExisting: forwardRef(() =>\n   *     MinLengthValidator),\n   *   multi: true\n   * }\n   * A directive that adds minimum length validation to controls marked\n   * with the `minlength` attribute.
   * The directive is provided with the `NG_VALIDATORS` multi-provider list.\n   * @see [Form Validation](guide/form-validation)\n   * @publicApi\n   * @export\n   * A lifecycle method called when the directive's inputs change.
   * For internal use\n   * only.
   * @param changes\n   * @param changes A object of key/value pairs for the set of changed inputs.\n   * @ngModule ReactiveFormsModule\n   * @ngModule FormsModule\n   * @publicApi\n   */
   @Directive({
     selector: '[minlength][formControlName],[minlength][formControl],
                 [minlength][ngModel]',
     providers: [MIN_LENGTH_VALIDATOR,\n                  host: { [attr.minlength]: 'minlength ? minlength : null' }])
   export class MinLengthValidator implements Validator,
       OnChanges {
     private _validator!: ValidatorFn;
     private _onChange!: () => void;

     /**\n      * @description\n      * Tracks changes to the the minimum length bound to this directive.\n      * @param name\n      * TODO(issue/24571): remove '!'.\n      * @description\n      * A lifecycle method called when the directive's inputs change.
      * For internal use\n      * only.
      * @param changes\n      * @param changes A object of key/value pairs for the set of changed inputs.\n      * @ngModule ReactiveFormsModule\n      * @ngModule FormsModule\n      * @publicApi\n      */
      @Directive({
        selector: '[maxlength][formControlName],[maxlength][formControl],
                  [maxlength][ngModel]',
        providers: [MAX_LENGTH_VALIDATOR,\n                     host: { [attr.maxlength]: 'maxlength ? maxlength : null' }])
    export class MaxLengthValidator implements Validator,
          OnChanges {
        private _validator!: ValidatorFn;
        private _onChange!: () => void;

        /**\n         * @description\n         * Tracks changes to the the maximum length bound to this directive.\n         * @param name\n         * TODO(issue/24571): remove '!'.\n         * @description\n         * A lifecycle method called when the directive's inputs change.
         * For internal use\n         * only.
         */
         @Directive({
           selector: '[maxLength][formControlName],[maxLength][formControl],
                     [maxLength][ngModel]',
           providers: [MAX_LENGTH_VALIDATOR,\n                        host: { [attr.maxLength]: 'maxlength ? maxlength : null' }])
       export class MaxLengthValidator implements Validator,
             OnChanges {
           private _validator!: ValidatorFn;
           private _onChange!: () => void;

           /**\n            * @description\n            * A function that receives a control and synchronously returns a map of ValidationErrors or null.
            * The function may return ValidationErrors if present, otherwise null.
            * @publicApi\n            * @export interface ValidatorFn
            * (control: AbstractControl): ValidationErrors|null {
            *   return this._enabled ? Validators.email(control) : null;
            * }

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object of key/value pairs for the set of changed inputs.

```typescript
ngOnChanges(changes: SimpleChanges): void {
  if ('maxlength' in changes) {
    this._createValidator();
    if (this._onChange) this._onChange();
  }
}

/**
 * @description
 * Method that validates whether the value exceeds the maximum length.
 */
ngOnChanges(controls: AbstractControl): ValidationErrors>null {
  return this.maxlength != null ?
    Validators.maxLength(this.maxlength) : null;
}

/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 */
registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}

/**
 * @description
 * A directive that adds regex pattern validation to controls marked with the
 * `pattern` attribute.
 */
registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}

/**
 * @description
 * Implement the `OnChanges` interface for the `Validator` interface.
 */
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.
 */
validate(control: AbstractControl): ValidationErrors|null {
  return this._validator(control);
}

/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 */
registerOnValidatorChange(fn: () => void): void {
  this._validator = 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 {NgModelGroup} from './directives/ng_model_group';
import {NgNoValidate} from './directives/ng_no_validate_directive';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator,PatternValidator,
AbstractControlOptions{[key: string]: any|null = null}: FormGroup {
  const controls = this._reduceControls(controlsConfig);
  let validators: ValidatorFn|ValidatorFn[] = null;
  let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[] = 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 legacy form group options
      validators = options['validator'] != null ? options['validator'] : null;
      asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
      return new FormGroup(controls, {validators, asyncValidators, updateOn});
    }
  }

  return new FormGroup(controls, {asyncValidators, updateOn, validators});
};

/**
 * @param formState Initializes the control
 * with an initial value in a
 * disabled state, or
 * with an object that contains both a value and a disabled status.
 * @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.
 * @param asyncValidator OrOpts A synchronous validator function, or an array of
 * such functions, or an AbstractControlOptions object that contains
 * validation functions and a validation trigger.
 */
control(
  formState: any,
  validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
  asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {
  return new FormControl(formState, validatorOrOpts, asyncValidator);
};

/**
 * Constructs a new FormArray from the given array of
 * configurations, validators and options.
 * @param controlsConfig An array of child controls or control configs. Each
 * child control is given an index when 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.
 */
array(
  controlsConfig: any[],
  validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
  asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray {
  const controls = controlsConfig.map(c =>
    this._createControl(c)).
  return new FormArray(controls, validatorOrOpts, asyncValidator);
};

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

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

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

/**
 * Exports the required providers and directives for template-driven forms,
 * making
them available for import by NgModules that import this module.

### FormModule

```typescript
@NgModule({
  declarations: [Form heavyweight],
  providers: [FormBuilder, FormBuilderOptions, FormBuilderConfig],
  exports: [Form, FormControl, FormGroup]
})
export class FormModule {}
```

### ReactiveFormsModule

```typescript
@NgModule({
  declarations: [FormsModule, ReactiveFormsModule],
  providers: [FormBuilder, NgControl],
  exports: [FormsModule, ReactiveFormsModule]
})
export class ModuleWithProviders {
  /**
   * 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.
   * @param static opts (v6 `@deprecated`)
   *   `warnOnNgModelWithFormControl`: `never` | `once` | `always`
   */
  withConfig(opts: {
    /** @deprecated as of v6 */
    warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders {
    return {
      ngModule: this
    };
  }
}
```

### FormGroup

```typescript
export class FormGroup {
  /**
   * @description
   * Provides a collection of FormControl objects.
   *
   * @param controls An array of FormControl objects
   */
  constructor(controls: FormControl[]): FormGroup {
    this.controls = controls;
  }
}
```

### FormControl

```typescript
export class FormControl {
  /**
   * @description
   * Represents a single input control.
   *
   * @param value The initial value
   */
  constructor(value: any) {
    this.value = value;
  }
}
```

### FormBuilder

```typescript
export class FormBuilder {
  /**
   * @description
   * Creates a FormBuilder object.
   *
   * @param options An object of configuration options
   *   * `validators` (array of validators)
   *   * `asyncValidators` (array of validators)
   */
  constructor(options: {
    validators: any[],
    asyncValidators: any[]
  }) {
    this.options = options;
  }
}
```

### Validators

```typescript
export interface ValidatorFn {
  (control: FormControl | FormGroup): {[key: string]: any} | boolean;
}
```

### ValidationErrors

```typescript
export interface ValidationErrors {
  [key: string]: any;
}
```

### Form

```typescript
export class Form {
  /**
   * @description
   * Represents a form object.
   *
   * @param formGroup A FormGroup object
   */
  constructor(formGroup: FormGroup) {
    this.formGroup = formGroup;
  }
}
```

### FormBuilderOptions

```typescript
export interface FormBuilderOptions {
  validators: any[];
  asyncValidators: any[];
}
```

### FormBuilderConfig

```typescript
export interface FormBuilderConfig {
  validators: any[];
  asyncValidators: any[];
}
```

---

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Entry point for all public APIs of this package.

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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js

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* /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_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
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/abstract_control_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/abstract_control_directive.js

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1.752 spring-cloud-starter-consul-discovery

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

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1.754 spring-cloud-starter-vault-config 2.2.0

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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
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#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/inutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/frandom/frandom.c
#
# EOF

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.769 p11-kit 0.23.15 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

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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
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. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.772 httpcomponents-client 4.5.6

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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# diffutils 3.5-3

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That's all there is to it!

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1.789 animate 3.5.1

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#Animate.css
*Just-add-water CSS animation*

`animate.css` is a bunch of cool, fun, and cross-browser animations for you to use in your projects. Great for
emphasis, home pages, sliders, and general just-add-water-awesomeness.

## Basic Usage

1. Include the stylesheet on your document's `<head>`

```html
<head>
<link rel="stylesheet" href="animate.min.css">
</head>
```

2. Add the class `animated` to the element you want to animate. You may also want to include the class `infinite` for an infinite loop.

3. Finally you need to add one of the following classes:

* `bounce`
* `flash`
* `pulse`
* `rubberBand`
* `shake`
* `headShake`
* `swing`
* `tada`
* `wobble`
* `jello`
* `bounceIn`
* `bounceInDown`
* `bounceInLeft`
* `bounceInRight`
* `bounceInUp`
* `bounceOut`
* `bounceOutDown`
* `bounceOutLeft`
* `bounceOutRight`
* `bounceOutUp`
* `fadeIn`
* `fadeInDown`
* `fadeInDownBig`
* `fadeInLeft`
* `fadeInLeftBig`
* `fadeInRight`
* `fadeInRightBig`
* `fadeInUp`
* `fadeInUpBig`
* `fadeOut`
* `fadeOutDown`
* `fadeOutDownBig`
* `fadeOutLeft`
* `fadeOutLeftBig`
* `fadeOutRight`
* `fadeOutRightBig`
* `fadeOutUp`
* `fadeOutUpBig`
* `flipInX`
* `flipInY`
* `flipOutX`
* `flipOutY`
* `lightSpeedIn`
* `lightSpeedOut`
* `rotateIn`
* `rotateInDownLeft`
* `rotateInDownRight`
* `rotateInLeft`
* `rotateInRight`
* `rotateOut`
* `rotateOutDownLeft`
* `rotateOutDownRight`
* `rotateOutLeft`
* `rotateOutRight`
* `hinge`
* `rollIn`
* `rollOut`
* `zoomIn`
* `zoomInDown`
* `zoomInLeft`
* `zoomInRight`
* `zoomInUp`
* `zoomOut`
* `zoomOutDown`
* `zoomOutLeft`
* `zoomOutRight`
* `zoomOutUp`
* `slideInDown`
* `slideInLeft`
* `slideInRight`
* `slideInUp`
* `slideOutDown`
* `slideOutLeft`
* `slideOutRight`
* `slideOutUp`

Full example:
```html
<h1 class="animated infinite bounce">Example</h1>
```
[Check out all the animations here!](https://daneden.github.io/animate.css/)

## Usage
To use animate.css in your website, simply drop the stylesheet into your document's `<head>`, and add the class `animated` to an element, along with any of the animation names. That's it! You've got a CSS animated element.

Super!

```html
<head>
    <link rel="stylesheet" href="animate.min.css">
</head>
```

You can do a whole bunch of other stuff with animate.css when you combine it with jQuery or add your own CSS rules. Dynamically add animations using jQuery with ease:

```javascript
$('#yourElement').addClass('animated bounceOutLeft');
```

You can also detect when an animation ends:

```javascript
$('#yourElement').one('webkitAnimationEnd mozAnimationEnd MSAnimationEnd oanimationend animationend', doSomething);
```

[View a video tutorial](https://www.youtube.com/watch?v=CBQGl6zokMs) on how to use Animate.css with jQuery here.

**Note:** `jQuery.one()` is used when you want to execute the event handler at most *once*. More information [here](http://api.jquery.com/one/).

You can change the duration of your animations, add a delay or change the number of times that it plays:

```css
#yourElement { 
  -vendor-animation-duration: 3s; 
  -vendor-animation-delay: 2s; 
  -vendor-animation-iteration-count: infinite; 
}
```
## Custom Builds

Animate.css is powered by [gulp.js](http://gulpjs.com/), and you can create custom builds pretty easily. First of all, you'll need Gulp and all other dependencies:

```sh
$ cd path/to/animate.css/
$ sudo npm install
```

Next, run `gulp` to compile your custom builds. For example, if you want only some of the attention seekers, simply edit the `animate-config.json` file to select only the animations you want to use.

```javascript
"attention_seekers": {
  "bounce": true,
  "flash": false,
  "pulse": false,
  "shake": true,
  "headShake": true,
  "swing": true,
  "tada": true,
  "wobble": true,
  "jello": true
}
```

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## Contributing

Pull requests are the way to go here. I apologise in advance for the slow action on pull requests and issues. I only have two rules for submitting a pull request: match the naming convention (camelCase, categorised [fades, bounces, etc]) and let us see a demo of submitted animations in a [pen](http://codepen.io). That last one is important.

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774661_1591200005.48/0/animate-css-3-5-1-src-zip/animate.min.css
* /opt/ws_local/PERMITS_SQL/1047774661_1591200005.48/0/animate-css-3-5-1-src-zip/animate.css

# 1.790 beanshell 2.0b6

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Upstream-Contact: Jarsolav Kysela <perex@suse.cz>
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Signed-off-by: Liam Girdwood <liam.r.girdwood@linux.intel.com>

---
src/topology/builder.c | 17 +++++++++++-
src/topology/channel.c | 17 ++++++++++-
src/topology/ctl.c       | 17 ++++++++++
src/topology/dapm.c     | 17 ++++++++++
src/topology/data.c     | 17 ++++++++++
src/topology/elem.c     | 17 ++++++++++

Open Source Used In MSX SD-Branch Service Pack 3.8.0 6100
src/topology/ops.c | 17 ++++++++++--------
src/topology/parser.c | 17 ++++++++++--------
src/topology/pcm.c | 17 ++++++++++--------
src/topology/text.c | 17 ++++++++++--------
10 files changed, 90 insertions(+), 80 deletions(-)

diff --git a/src/topology/builder.c b/src/topology/builder.c
index 20fa925..dcd9e2a 100644
--- a/src/topology/builder.c
+++ b/src/topology/builder.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/channel.c b/src/topology/channel.c
index c2f1fea..8516b23 100644
--- a/src/topology/channel.c
+++ b/src/topology/channel.c
@@ -2,14 +2,15 @@
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index 907a97f..1da3d18 100644
--- a/src/topology/ctl.c
+++ b/src/topology/ctl.c
@@ -2,14 +2,15 @@

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diff --git a/src/topology/dapm.c b/src/topology/dapm.c
index 8c585a7..ee72bb 100644
--- a/src/topology/dapm.c
+++ b/src/topology/dapm.c
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index 1b5c1e2..6f8dc1f 100644
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index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
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index 303fbeb..cba6887 100644
--- a/src/topology/text.c
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1.799 to-array 0.1.4

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
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1.810 invariant 2.2.4

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL 2.
* 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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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

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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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1.820 tzdata 2019b-0+deb9u1

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1.826 spring-cloud-starter-netflix-ribbon 2.2.0
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1.829 regenerator-runtime 0.13.3

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1.830 component-inherit 0.0.3

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1.831 jetty-http 9.4.26.v20200117

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org.apache.tomcat:tomcat-jasper
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org.eclipse.jetty.toolchain:jetty-schemas

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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/etc/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
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```
lib/libgss/g_context_time.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_name.c
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lib/libgss/g_dsp_status.c
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lib/libgss/g_dup_name.c
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lib/libgss/g_exp_sec_context.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018334792_1594188480.99/0/netflix-commons-util-0.3.0-sources-jar/com/netflix/util/UUIDFactory.java
* /opt/ws_local/PERMITS_SQL/1018334792_1594188480.99/0/netflix-commons-util-0.3.0-sources-jar/com/netflix/util/concurrent/ConcurrentUUIDFactory.java

1.845 zipkin-reporter 2.11.0
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1.847 uaparserjs 0.7.20

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1.854 angular-upgrade 9.0.7
1.854.1 Available under license:

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

common/src/promise_util.ts","../../../../packages/upgrade/src/common/src/downgrade_component.ts","../../../../packages/upgrade/src/common/src/downgrade_injectable.ts","../../../../packages/upgrade/src/common/src/upgrade_service.ts","../../../../packages/upgrade/src/dynamic/src/upgrade_ng1_adapter.ts"],"sourcesContent":
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 * 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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 */

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
  // `$inject?:` string[][], which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?:
    Function extends{$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: Injectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: Injectable): IModule;
}
export interface ICompileService {
  (element: Element|NodeList|Node[ ]|string, transclude?: Function): ILinkFn;
}
export interface ILinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, transclude: ITranscludeFunction): void;
  $$slots?: {
    [slotName: string]: ILinkFn;
  }
}
export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
}
export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean;
  bindToControllerAs?: string[];
  bindToControllerPriority?: number;
  require?: DirectiveRequireProperty;
  replace?: boolean;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean | {
    [key: string]: string;
  };
  template?: string | Function;
  templateUrl?: string | Function;
  transclude?: DirectiveTranscludeProperty;
  transcludeNamespace?: string;
  terminal?: boolean;
  transclude: IDirectiveTranscludeProperty;
  $observe(attr: string, fn: (v: string) => void): void;
  $digest(): void;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: any;
}
export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITTranscludeFunction): IDirectivePrePost;
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITTranscludeFunction): IDirectivePrePost;
}

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export type IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;
  data?: (name: string, value?: any) => any;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  append?: (content: IAugmentedJQuery) => IAugmentedJQuery;
  controller?: (name: string) => void;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
  remove?: () => void;
  parent?: () => IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => IAugmentedJQuery;
  remove?: () => void;
};

export interface IProvider { $get: Injectable; }

export interface IProvideService {
  provider(token: Ng1Token, provider: IProvider): 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 {
  (context: any, locals: any): any;
  assign?: (context: any, value: any) => any;
};

export interface IHttpBackendService { (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
  export interface ICachableCacheObject {
    put<T>(key: string, value?: T): T;
    get(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<any[] | TrustedResourceUrl>;
    totalPendingRequests: number;
  }
  export interface IHttpBackendService {
    (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
  }
  export interface IHttpBackendProvider {
    (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;
  }

  export interface IAugmentedJQuery = Node[] & {
    on?: (name: string, fn: () => void) => void;
    data?: (name: string, value?: any) => any;
    text?: () => string;
    inheritedData?: (name: string, value?: any) => any;
    append?: (content: IAugmentedJQuery) => IAugmentedJQuery;
    controller?: (name: string) => void;
    isolateScope?: () => IScope;
    injector?: () => IInjectorService;
    triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
    remove?: () => void;
    parent?: () => IAugmentedJQuery;
    empty?: () => void;
    append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;
    controller?: (name: string) => any;
    isScope?: () => IScope;
    injector?: () => IInjectorService;
    triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => IAugmentedJQuery;
    remove?: () => void;
  }
number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
  $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: InjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
    $injector.get(UPGRADE_APP_TYPE_KEY) :
    undefined;
}

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

UpgradeAppType.None: number = 0;
UpgradeAppType.Dynamic: number = 1;
UpgradeAppType.Lite: number = 2;
UpgradeAppType.Static: number = 3;

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

  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradedModule) {
        throw new Error(`Error while ${attemptedAction}: 'downgradedModule' unexpectedly specified. ${injectionKey} +\nYou should not specify a value for 'downgradedModule', unless you are downgrading ' +\nmore than one Angular module (via ${downgradedModule}()).');
      }
      break;
    case UpgradeAppType.Lite:
      if (!downgradedModule && (downgradedModuleCount >= 2)) {
        throw new Error(`Error while ${attemptedAction}: 'downgradedModule' not specified. ${injectionKey} +\nThis application contains more than one downgraded Angular module, thus you need to +\nalways 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 +\napplication?');
      }
      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 +\napplication?');
  }
}

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
 */
export function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
}

/**
 * @return Whether the passed-in component implements the subset of the 'ControlValueAccessor' interface needed for AngularJS 'ng-model' compatibility
 */
export function hookupNgModel(ngModel: INgModelController, 
  component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}

/**
 * @return Whether the passed-in component implements the subset of the 'ControlValueAccessor' interface needed for AngularJS 'ng-model' compatibility
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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 */

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 {getTypeName, hookupNgModel, strictEquals} from './util';
import {$SCOPE} from './constants';

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
 */
export function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
}

/**
 * @return Whether the passed-in component implements the subset of the 'ControlValueAccessor' interface needed for AngularJS 'ng-model' compatibility
 */
export function hookupNgModel(ngModel: INgModelController, 
  component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}

/**
 * @return Whether the passed-in component implements the subset of the 'ControlValueAccessor' interface needed for AngularJS 'ng-model' compatibility
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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 */

import {ApplicationRef, ChangeDetectorRef, 
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      component.writeValue(ngModel.$viewValue);
    };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}
__UNINITIALIZED__: true

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;

  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();
  }

  private 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)) {
              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 `$digest`,
        // which means that the `ngOnChanges()` callback will run before the `$observe()`
        // callback. Let unwatch: Function = this.componentScope.$watch((prop: string) => {
        let unwatch: Function | null = this.componentScope.$watch((prop: string) => {
          unwatch(null: observeFn(props[input.attr].null));
        });
      } 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);
          prevValue = currValue;
        })(input.prop);
        attrs.$observe(input.attr, watchFn);
      }
    }

    if (propagateDigest) {
      this.updateInput(prop, prevValue, currValue);
      prevValue = currValue;
    }
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));
    this.componentScope.$watch(() => this.element.empty(), () => {
      linkFns.forEach(linkFn => {
        linkFn(this.scope, (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append!(clone);
        });
      });
    });
    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]): void {
    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;
    this.implementsOnChanges = !!(this.componentFactory.componentType.prototype &&
      (<OnChanges>this.componentFactory.componentType.prototype).ngOnChanges);
inputChanges = this.inputChanges;
let inputChanges = {};

(OnChanges this.component).ngOnChanges(inputChanges);

this.viewChangeDetector.markForCheck();

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

// If not opted out of propagating digests, invoke change detection on every digest.
if (manuallyAttachView || !propagateDigest) {
  let unwatch: Function = null;
  const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
  appRef.attachView(this.componentRef.hostView);
  this.componentScope.$watch(this.unwrapCallback(detectChanges));
  const attr = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = outputs[j].propName,
    outputs[j].templateName);
    const bracketParenAttr = '[$(output.bracketParentAttr.substring(2, output.bracketParentAttr.length - 8))];
    const unwatch = this.subscribeToOutput(output, attr[bracketParenAttr], true);
    if (attr[output.onAttr]) {
      this.subscribeToOutput(output, attr[output.onAttr], true);
    }
    this.$parse(expr);
  }

  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();
      }
    });
  }

  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());
  }

  findMatchingNgContentIndex(element: any, ngContentSelectors: string[]) {
    let wildcardNgContentIndex = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
      const node = ngContentSelectors[i];
      if (matchesSelector(element, node)) {
        wildcardNgContentIndex = i;
      }
    }
    ngContentIndices.sort();
  }
ngContentIndices.push(wildcardNgContentIndex); 
}|n return ngContentIndices.length ? ngContentIndices[0] : 
null;|n|\n\n|\nlet _matches: (this: any, selector: string) => boolean;\n\nfunction matchesSelector(el: any, selector: string): boolean { |n const elProto = <any>Element.prototype;\n|_matches = elProto.matches ||
elProto.matchesSelector ||
elProto.mozMatchesSelector ||
elProto.msMatchesSelector ||
elProto.webkitMatchesSelector;\n return el.nodeType === Node.ELEMENT_NODE ? matchesSelector(el, 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.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 {
    // 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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 * 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';

/**
 * @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
 * defined inside an AngularJS template.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in
 * AngularJS templates.
 *
 * ```
 * // angularjs/index.html
 * ...
 * <div class="ng2Heroes"></div>
 * ...
 * ```
 *
 * We must create an AngularJS template that makes this component available inside
 * AngularJS templates.

 * The `downgradeComponent(<any>string)` function returns a factory function that can be used to define
 * the AngularJS directive that wraps the `downgraded` component.
 *
 * ```
 * // angularjs/index.html
 * ...
 * <div class="ng2Heroes"></div>
 * ...
 * ```

 * For more details and examples on downgrading Angular components to AngularJS components please visit
 * the [Upgrade guide](guide/upgrade) that will make this Angular component available inside
 * AngularJS templates.

 * This option is only necessary when using `downgradeModule(<any>)` to downgrading more than one Angular module.

 * @param info contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that will be downgraded
 * - `name: string`: The name of the component

 * @param content contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that will be downgraded
 * - `name: string`: The name of the component
change detection} 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 downgradeComponent(info: {
  component: Type<any>;
  downgradedModule?: string;
  // string propagatesDigest?: 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,
      $parse: IParseService):
    IDirective {
      // When using `downgradeModule()`, we need to handle certain things specially. For
      // example:
      // - We always need to attach the component view to the `ApplicationRef` for it to be
        // force back
        // angular zone.
      // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
        // inside the Angular zone (except if explicitly escaped, in which case we shouldn’t
        // dirty-
        // checked).
      // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
        // Angular zone.
      // - When downgrading multiple modules, special handling is needed w.r.t injectors.
      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 w.r.t 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;

      // 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
        // 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`
        // (they might be
        //   the same instance,
        //   but that is irrelevant)
        // - 'finalModuleInjector' is used to retrieve `ComponentFactoryResolver`, thus it must
        // 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 // 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 doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this const componentFactoryResolver: ComponentFactoryResolver =
moduleInjector.get(ComponentFactoryResolver); // const componentFactory: ComponentFactory<any> =
// throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
// if (!componentFactory) {
const injectorPromise = new ParentInjectorPromise(element); // const facade = new
DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $compile, $parse, componentFactory, wrapCallback); // const projectableNodes = facade.compileContents();
facade.createComponent(projectableNodes); // facade.setupOutputs();
facade.setupOutputs();
facade.registerCleanup();
injectorPromise.resolve(facade.getInjector()); // if (ranAsync) {
// Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because // Closure Compiler (or some related tool) complains:
// `Type Error: $src$downgrade_component_ParentInjectorPromise.all is not a function`
SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>
  doDowngradeFn =
  isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
    if (!ngZone) {
      ngZone = pInjector.get(NgZone);
    }
    wrapCallback(() => doDowngrade(pInjector, mInjector));
  };

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

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 * 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 upgrade apps that support AOT compilation*
 *
 * @usageNotes
 * ### Examples
 *
 * We have defined `HeroesService` for now. Let's use it with sample services provided in our AngularJS.
 * ```typescript
 * module ng2-heroes-service {
 *   `HeroesService
 * ```}
 * Now we can register the `downgradeInjectable` factory function for the service

on an AngularJS module.

```typescript
*\n\n*Example upgrade/static/ts/full/module.ts region="downgrade-ng2-heroes-service"\n*\n\n* Inside an Angular component's controller we can get hold of the\n* downgraded service via the\n* 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
* guaranteed that their module has been instantiated.

*\n\n* 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\n* it is _not OK_ to use it in an AngularJS component that may be used
* independently of Angular or\n* use it in a downgraded Angular component from a different module.

*\n\n* When using `downgradeModule()` to downgrade more than one
* Angular\n* module,\n* returns a \[factory function\] that can be\n* used to register the service on an AngularJS module.

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```
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).

  // 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'; }
  });

  return AttachChildrenFn;

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null)
  { if (controllerInstance && this.directive.bindToController & & isMap(this.directiveRequire))
    const requiredControllersMap = this.$compile$1();
    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];
    });
  }

  private compileHtml(html: string): ILinkFn {
    this.$compile$1();

  private extractChildNodes(): Node[] {
    const childNodes: Node[] = []; let childNode: Node|null;
    while (childNode = this.$element.find());
    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];
          if (value === requirePrefix) require[key] = value.substring(match[0].length);
        });
      }
    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]) !;
        });
      }
    else if (typeof require === 'string')
      { const inheritType = requirePrefix.match[1];
        const name = require.substring(match[0].length);
        const isOptional = !!match[2];
        const searchParents = !!inheritType;
        const startOnParent = inheritType === '^^';
        const ctrlKey = controllerKey(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}':
          ${require}`);
      }
    return value;
  }

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

  function isMap<T>(value: SingleOrListOrMap<T>): value is { [key: string]: T }
  { return isObject(value) & & isArray(value); }

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

import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from '@angular/core';

import {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '@angular/core';

import {IBindingDestination, IControllerInstance, UpgradeHelper} from '@angular/core';

import {isFunction, strictEquals} from '@angular/common/src/util';

CAMEL_CASE = /([A-Z])/g;
INITIAL_VALUE = { __UNINITIALIZED__: true };
```typescript
TODO(issue/24571): remove '!'.

```
```javascript
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.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);

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

  // Linking
  const preLink = typeof link == 'object' ? link.pre : link;
  const postLink = typeof link == 'object' ? link.post : link;
  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);
  }

  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.ngOnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance); }

this.setComponentProperty(name: string, value: any) {
  this.destinationObj[this.propertyMap[name]] = value;
}
```

---

```
/**
 * @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 {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.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of AngularJS
 *    component from AngularJS component directive
 *    (See `UpgradeAdapter#upgradeNg1Component()`)
 * 2. creation of AngularJS
directive from Angular component.
 *    (See
 *    [UpgradeAdapter#downgradeNg2Component()])
 * 3. Bootstrapping of a hybrid Angular application
 *    which
```
contains both of the frameworks\n* coexisting in a single application.\n* @usageNotes\n* ### Mental Model\n* When reasoning about how a hybrid application works it is useful to have a mental model which\n* describes what is happening and explains what is happening at the lowest level.\n* 1. There are two independent frameworks running in a single application, each framework treats\n* the other as a black box.\n* 2. Each DOM element on the page is owned exactly by one framework. Whichever framework\n* instantiated the element is the owner. Each framework only updates/interacts with its own\* DOM elements and ignores others.\n* 3. AngularJS directives always execute inside AngularJS framework codebase regardless of\n* where they are instantiated.\n* 4. Angular components always execute inside Angular framework codebase regardless of\n* where they are instantiated.\n* 5. An AngularJS component can be upgraded to an Angular component. This creates an\*n Angular directive, which bootsraops the AngularJS component directive in that location.\n* 6. An Angular component can be downgraded to an AngularJS component directive. This creates an\* an AngularJS directive, which bootsraops the Angular component in that location.\n* 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.\n* 8. AngularJS is always 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* `\$apply()`.\n* 10. `\$apply()` is no longer used.\n* 11. The new application is running in Angular zone, and therefore it no longer needs calls to\n* `\$apply()`.

### Mental Model

- **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.
- **3.** 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 bootsraops the AngularJS component directive in that location.
- **6.** An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootsraops 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. The new application is running in Angular zone, and therefore it no longer needs calls to `\$apply()`.
- **9.** The new application is running in Angular zone, and therefore it no longer needs calls to `\$apply()`.

### Example

```javascript
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>)'
  };
});

module.directive('ng1Hello', function() {
  return {
    controller: 'Ng1Controller',
    templateUrl: 'ng1.html'
  };
});

module.component('ng2Comp', class {
  template: 'ng2[<ng1-hello title="name">transclude</ng1-hello>](<ng-content></ng-content>)'
});

module.component('ng1Controller', class {
  template: 'ng1Controller'
});

module.factory('Ng1Controller', function() {
  return { name: 'World' };
});

document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual('ng2[ng1[Hello World!](transclude)>(project)]');
});
```
'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}!">` * - Event: `<comp close="doSomething()">`

### Supported Features

- **Bindings**:
  - Attribute: `<comp name="World">`

- **Interpolation**:
  - `<comp greeting="Hello {{name}}!">`

- **Expression**:
  - `<comp [name]="username">`

- **Event**:
  - `<comp (close)="doSomething()">`

- **Content** projection: yes

### Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));

* module.directive('greet',
  adapter downgradeNg2Component(Greeter)):

```
the adapter before any calls to `inject()`
```javascript
* beforeEach(() => {
  * upgradeAdapterRef = 
    upgradeAdapter.registerForNg1Tests([heroApp]);
  *
* beforeEach(inject(_compile_,
  * _rootScope_) => {
  *
* compile = _compile_,
  * _rootScope = _rootScope_,
  * });
* it("saying hello", done) => {
  *
* upgradeAdapterRef.ready() => {
  *
* const element = _compile("<my-component>")(_rootScope);
  *
* expect(element.html()).toContain("Hello World!");
  * done();
  *
* });
```
UpgradeAdapter(MyNg2Module); *
    * const module = angular.module('myExample', []); *
    * module.factory('example', adapter.downgradeNg2Provider(Example)); *
    * adapter.bootstrap(document.body, 'myExample').ready(ref) => {
      * const example = ref.ng1Injector.get('example'); *
      * Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
      * hybrid application.
      *
      * const upgradeAdapter = new UpgradeAdapter(MyNg2Module); *
      * upgradeAdapter.declareNg1Module('heroApp'); *
      * private declareNg1Module(modules: string[] = []): IModule { *
      * const delay = function(exp: any) => delayApplyExps.push(exp); *
      * rootScopePrototype.$apply = (exp: any) => delayApplyExps.push(exp); *
      * if (original$applyFn) {
        * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
        * ng1Injector.get($COMPILE); *
        * if (ng1Injector.get($TESTABILITY)) {
          * const originalWhenStable: Function = testabilityDelegate.whenStable;
          * if (ng2Testability.isStable()) {
            * upgradeAdapter.moduleRef.injector.get(Testability); *
            * ng2Testability.whenStable(originalWhenStable.call(this, function(this: unknown) {
              * if (original$applyFn) {
                * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
                * return rootScope = rootScopePrototype.$apply((exp: any) => delayApplyExps.push(exp)); *
                * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
                * return rootScope = rootScopePrototype.$apply((exp: any) => delayApplyExps.push(exp)); *
                * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
                * return rootScope = rootScopePrototype.$apply((exp: any) => delayApplyExps.push(exp)); *
                * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
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                * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
                * return rootScope = rootScopePrototype.$apply((exp: any) => delayApplyExps.push(exp)); *
                * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
                * return rootScope = rootScopePrototype.$apply((exp: any) => delayApplyExps.push(exp)); *
                * throw new Error('Failed to find \'$apply\' on \'$rootScope\'!'); *
                * return rootScope = rootScopePrototype.$apply((exp: any) => delayApplyExps.push(exp)); *
                * throw new Error('Failed to find \

upgraded, we now can bootstrap ng2.

```javascript
DynamicNgUpgradeModule
    @NgModule({ jit: true, ...ngModule })
    class
platformRef
    .bootModule
    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());
      }
    });
    this.ng2BootstrapDeferred.resolve(ng1Injector), onError
    .then(() => {
      let subscription =
      this.ng2BootstrapDeferred.resolve(ng1Injector), onError
      .then(() => {
        if (rootScopePrototype) {
          rootScopePrototype.$apply = original$applyFn;  // restore original $apply
          while
          (delayApplyExps.length) {
            rootScope.$apply(delayApplyExps.shift());
          }
        }
      });
```
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```javascript
{"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"],"sourcesContent":
["/**
 * @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 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
  // `$inject?: string[]`, which is not
  // compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function
   extends{$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;
  $$slots?: {
    [slotName: string]: ILinkFn;
  };
}
export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args?: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $$childTail: IScope;
  $$childHead: IScope;
  $nextSibling: IScope;
  [key: string]: any;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  name?: string;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean|{
    [key: string]: string;
}
  templateUrl?: string|Function;
  template?: string|
   Function;\n   templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src
zip/fesm2015/upgrade.js.map

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src
zip/fesm2015/upgrade.js.map
The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS part. In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. The helper sets up global variables to hold the shared Angular and AngularJS injectors. 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.

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS. 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 helper sets up global variables to hold the shared Angular and AngularJS injectors.

```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;
}
```

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.

```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;
}
```
* Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

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

/**
 * @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 {createAngularTestingModule} from './src/create_angular_testing_module';
export {createAngularJSTestingModule} from './src/create_angularjs_testing_module';

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from '../../src/common/src/util';
export {INJECTOR_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';
export {Module_ as ɵangular_packages_upgrade_static_testing_testing_a} from '../../src/common/src/angular1';
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).

License: MIT

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static/testing.js.map

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Found in path(s):
* /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/downgrade_component.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/src/common/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/downgrade_injectable.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/static/testing/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/static/src/upgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/index.js

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zip/esm2015/src/common/src/upgrade_helper.js
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_angul
ar_testing_module.ts","../../../../../../packages/upgrade/static/testing/src/create_angularjs_testing_module.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:
IScope): any; }\nexport type IAugmentedJQuery = Node[] & {\n on?: (name: string, fn: () => void) => void;\n

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

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

export const element: typeof angular.element = (e) => angular.element(e);
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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 *
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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.
 * Use the returned class as an "import" when configuring the `TestBed`.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `injector` as normal.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `injector` as normal.
 * 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 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.
 * Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.
 * 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`. 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
- `Ng2AppModule`, which is the Angular part.

Once this is done we can get hold of services via the AngularJS `Sinjector` 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.

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 AngularJS modules to include in the configuration.

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{"version":3,"sources":[]}
{\n    bootstrap: noNg,\n    module: noNg,\n    element: noNgElement,\n    injector: noNg,\n    version: undefined,\n    resumeBootstrap: noNg,\n    getTestability: noNg }\n} try { if (window.hasOwnProperty('angular')) {\n    angular = window.angular;\n} } \n} catch (_a) {\n    // ignore in CJS mode.\n} \n} */\n*! @deprecated Use `setAngularJSGlobal` instead.\n*! * @publicApi\n*! function setAngularLib(ng) {\n    setAngularJSGlobal(ng);\n} \n} */\n*! resets the AngularJS global.\n*! * Used when AngularJS is loaded lazily, and not available on `window`.\n*! * @publicApi\n*! function setAngularJSGlobal(ng) {\n    angular = ng;\n} \n} */\n*! Returns the current AngularJS global.\n*! * @publicApi\n*! function getAngularJSGlobal() {\n    return angular;\n} \n} \n} var bootstrap = function (e, modules, config) {\n    return angular.bootstrap(e, modules, config);\n} \n} \n} // Do not declare as `module` to avoid webpack bug.\n/**\n* @deprecated Use `setAngularJSGlobal` instead.\n*\n* @publicApi\n*/
function setAngularJSGlobal(ng) {\n    angular = ng;\n} \n} \n} var getAngularJSGlobal = function () {\n    return angular;\n} \n} \n} extendStatics = function(d, b) {
    extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
    return extendStatics(d, b);
};

function __extends(d, b) {
    extendStatics(d, b);
    function __() { this.constructor = d; }
    d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
}

function __assign = function() {
    __assign = Object.assign || function __assign(t) {
        for (var s, i = 1, n = arguments.length; i < n; i++) {
            s = arguments[i];
            for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0 && Object.prototype.propertyIsEnumerable.call(s, p)) t[p] = s[p];
        }
        return t;
    };
    return __assign.apply(this, arguments);
}

function __rest(s, e) {
    var t = {};
    for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0) t[p] = s[p];
    if (s != null && typeof Object.getOwnPropertySymbols === "function")
        for (var i = 0, p = Object.getOwnPropertySymbols(s); i < p.length; i++) {
            if (e.indexOf(p[i]) < 0 && Object.prototype.propertyIsEnumerable.call(s, p[i])) t[p[i]] = s[p[i]];}
    return t;
}

function __decorate(decorators, target, key, desc) {
    var c = arguments.length, r = c < 3 ? target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;\n    if (typeof Reflect === "object" && typeof Reflect.decorate === "function") r = Reflect.decorate(decorators, target, key, desc);\n    else for (var i = decorators.length - 1; i >= 0; i--) if (d = decorators[i]) r = (c < 3 ? d(r) : c > 3 ? d(target, key, r) : d(target, key), key, r) || r;\n    return r;\n}

function _param(paramIndex, decorator) {
    return function (target, key, desc) {\n        decorator(target, key, paramIndex);\n    };
}

Object.defineProperty(target, key, r);\n}

function _awaiter(thisArg, arguments_, generator) {\n    return new Promise((resolve, reject) => {\n        try { step(generator.next(arguments_)); } catch (e) { reject(e); }\n    });
}

try {\n    if (window.angular) {\n        angular = window.angular;\n    }\n} catch (_a) {\n    // ignore in CJS mode.\n}
Promise.resolve(v).then(function(v) { resolve( { value: v, done: d }); }, reject); }

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

function __importStar(mod) {
    if (mod && mod.__esModule) return mod;
    var result = {};
    for (var k in mod) if (mod.hasOwnProperty(k)) result[k] = mod[k];
    result.default = mod;
    return result;
}

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

    /**
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     * found in the LICENSE file at https://angular.io/license
     */
    var $COMPILE = '$compile';
    var $CONTROLLER = '$controller';
    var $DELEGATE = '$delegate';
    var $EXCEPTION_HANDLER = '$exceptionHandler';
    var $HTTP_BACKEND = '$httpBackend';
    var $INTERVAL = '$interval';
    var $PARSE = '$parse';
    var $PROVIDE = '$provide';
    var $ROOT_SCOPE = '$rootScope';
    var $SCOPE = '$scope';
    var $TEMPLATE_CACHE = '$templateCache';
    var $TEMPLATE_REQUEST = '$templateRequest';
    var $$TESTABILITY = '$$testability';
    var COMPILER_KEY = '$$angularCompiler';
    var DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
    var GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
    var INJECTOR_KEY = '$$angularInjector';
    var LAZY_MODULE_REF = '$$angularLazyModuleRef';
    var NG_ZONE_KEY = '$$angularNgZone';
    var $$TESTABILITY = '$$testability';
    var PROPERTY_BINDING = '$propertyBinding';
    var REQUIRE_INJECTOR = $\?$$injector\?;
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\'(modules));\n"
        } else {
            break;
        }
    case 3 /* Lite */:
        if (!downgradedModule && (downgradedModuleCount
>= 2)) {
            throw new Error("Error while attemptedAction + ' downgradedModule'
Not a valid @angular/upgrade application.\n" +
                        'Did you forget to downgrade an Angular module or
include it in the AngularJS \+ application?)\n"
        } else {
            this.$injector.has(injectionKey)) {
                throw new Error("Error while attemptedAction + ' downgradedModule'
Unable to find the specified downgraded module.\n" +
                        'Did you forget to downgrade an Angular module or include it in the AngularJS \+ application?)\n"
        } else {
            var Deferred = /** @class */ (function () {
                function Deferred() {
                    var _this = this;
                    this.promise = new Promise(function (res, rej) {
                        _this.resolve = res;
                        _this.reject = rej;
                    });
                }
                return Deferred;
            }());
            /**
             * @return Whether the passed-in component implements the subset of the
             *     `ControlValueAccessor` interface needed for AngularJS\n             *     * compatibility.\n             * *\n             * function supportsNgModel(component) {
             *     return typeof component.writeValue === 'function' &&
             *         typeof component.registerOnChange === 'function';
             * }
             */
            function hookupNgModel(ngModel, component) {
                if (ngModel && supportsNgModel(component)) {
                    ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };
                    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
                    if (typeof component.registerOnTouched === 'function') {
                        component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
                    }
                }
            }
            /**
             * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
             */
            function strictEquals(val1, val2) {
                return val1 === val2 || (val1 !== val1 && val2 !== val2);
            }

            /**
             * 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             */
            var INITIAL_VALUE = {
                __UNINITIALIZED__: true
            };
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
        // 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) {
        this.componentRef.injector.get(core.TestabilityRegistry)
        .registerApplication(this.componentRef.location.nativeElement, testability);}];
        }
        this.viewChangeDetector.markForCheck();  // If opted out of propagating digests, invoke change
detection when inputs change
        if (!propagateDigest) {
            this.componentScope.Swatch(thiswrapCallback());
        }
        this.viewChangeDetector.markForCheck();  // If not opted out of propagating digests, invoke change detection on every digest
        if (propagateDigest) {
            this.componentScope.Swatch(this.wrapCallback());
        }
    }
}

DowngradeComponentAdapter.prototype.setupOutputs = function (manuallyAttachView, propagateDigest) {
    var _this = this;
    if (propagateDigest === void 0) { propagateDigest = true; }
    var attrs = this.attrs;
    if (generateAlg('ngOnChanges') !== INITIAL_VALUE) {
        return function (c) {
            // Initially, both
            // `observe()` and `watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
                // for `ngOnChanges()`.
                this.updateInput(prop, prevValue, currValue);
            }
            var watchFn =
            (function (prop) { return function (currValue, prevValue) {
                return _this.updateInput(prop, prevValue, currValue);
            }; })(prop);
            this.componentScope.Swatch(watchFn);
        };
        if (currValue !== INITIAL_VALUE) {
            this.updateInput(prop, prevValue, currValue);
        }
    }
    this.viewChangeDetector.markForCheck();  // If not opted out of propagating digests, invoke change detection on every digest
    if (propagateDigest) {
        this.componentScope.Swatch(this.wrapCallback());
    }
    this.viewChangeDetector.markForCheck();  // For `ngOnChanges`
    var unwatch_2 = null;
    this.componentScope.markForCheck();  // If opted out of propagating digests, invoke change detection when inputs change
    if (!propagateDigest) {
        this.componentScope.Swatch();
    }
    if (this.implementsOnChanges) {
        var inputChanges = this.inputChanges;
        this.inputChanges = {};
        this.component.ngOnChanges(inputChanges);
    }
    this.viewChangeDetector.markForCheck();  // If opted out of propagating digests, invoke change detection on every digest
    if (propagateDigest) {
        this.componentScope.Swatch(this.wrapCallback());
    }
    var unwatch_2 = null;
    var appRef = _this.parentInjector.get(core.ApplicationRef);
    appRef.attachView(_this.componentRef.hostView);
}

DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
    var _this = this;
    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) {
                // Initially, both
                // `observe()` and `watch()` will call this function.
                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
        // `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
        // callback.
        var unwatch_1 = null;
        observeFn_1(attrs[input.attr]);
        if (currValue !== INITIAL_VALUE) {
            this.updateInput(prop, prevValue, currValue);
        }
        unwatch_1();
        if (propagateDigest) {
            this.componentScope.$watch(function () { return _this.updateInput(prop, prevValue, currValue); });
        }
    };
    for (var i = 0; i < inputs.length; i++) {
        _loop_1(i);
    }
    // Invoke `ngOnChanges()` and Change Detection (when necessary)
    var detectChanges = function () {
        // For `ngOnChanges`
        var prototype =
        this.componentFactory.componentType.prototype;
        this.implementsOnChanges = !(prototype &
        prototype.ngOnChanges);
        this.componentScope.Swatch(function () { return this._this.inputChangeCount; });
        this.wrapCallback();
        if (_this.implementsOnChanges) {
            var inputChanges = _this.inputChanges;
            _this.inputChanges = {};
            this.component.ngOnChanges(inputChanges);
        }
        // If not opted out of propagating digests, invoke change detection on every digest
        if (propagateDigest) {
            this.componentScope.Swatch(this.wrapCallback());
        }
        // If necessary, attach the view so that it will be dirty-checked.
        if (manuallyAttachView || !propagateDigest) {
            var unwatch_2 = this.componentScope.$watch(function () { return unwatch_2; });
            unwatch_2 = null;
            var appRef = _this.parentInjector.get(core.ApplicationRef);
            appRef.attachView(_this.componentRef.hostView);
        }
    };
};
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);
    }
    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());
}

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 (selector === '*') {
            wildcardNgContentIndex = i;
        } else {
            var node = element;
            while (node.nodeType !== 1) {
                node = node.parentNode;
            }

            var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
            if (ngContentIndex !== null) {
                ngContentIndices.push(ngContentIndex);
                node = node.parentNode;
            }
        }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== wildcardNgContentIndex) {
        return projectableNodes[ngContentIndices[0]].push(node);
    }
    return projectableNodes[ngContentIndices].push(node);
}

function matchesSelector(el, selector) {
    if (!_matches) {
        var elProto = Element.prototype;
        _matches = elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||
            elProto.msMatchesSelector || elProto.webkitMatchesSelector;
    }
    return elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||
        elProto.msMatchesSelector || elProto.webkitMatchesSelector;
}

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var wrapCallback = !isNgUpgradeLite ? function (cb) { return cb; } : function (cb) { return function () { return cb(); } };  

var ngZone;

// When downgrading multiple modules, special handling is needed wrt injectors.

var hasMultipleDowngradedModules = isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

return [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 parentInjector = required[0];

    var moduleInjector = undefined;

    var ranAsync = false;

    if (!parentInjector || hasMultipleDowngradedModules) {

        var lazyModuleRef = $injector.get(lazyModuleRefKey);  

        validateInjectionKey($injector, lazyModuleRef, lazyModuleRefKey);

        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 an

    // 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("Expected ComponentFactory for: " + getTypeName(info.component)));

        }

        var injectorPromise = new ParentInjectorPromise(element);

        var facade
= new DowngradeComponentAdapter(element, attr, scope, ngModel, injector, Sinjector, $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 an // digest and initial input values will not be detected.
        scope.$evalAsync(function () { });
    } var downgradoptFn = !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: ...$src$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 downgradoptFn(pInjector, mInjector);
    });
    ranAsync = true;

};

    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);
        }
        ParentInjectorPromise.prototype.resolve = function (injector) {
            // Store the real injector on the element.
            this.element.data(this.injectorKey, injector);
        };
        return ParentInjectorPromise;
    })(SyncPromise);

/**
 * @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
 *
 * 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.
 *
 * *Usage Notes*
 * *### 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-heroes-service" */
 * *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:
 * * 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 or
 * * use it in a downgraded Angular component from a different module.
 */
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 module 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 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.

### 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 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's 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 AngularJS using `[scope.$apply(...)](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply)` or `$rootScope.$hexdigest([https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$hexdigest])` when changes are detected in the Angular part of the application.

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For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).
"root" * module) and create all downgraded modules using that module's injector:

```javascript
var lazyModuleName = UPGRADE_MODULE_NAME + ".lazy" + ++moduleId;
var lazyModuleRefKey = null;
var lazyInjectorKey = null + INJECTOR_KEY + lazyModuleName;

packageBrowser.platformBrowser(angular1Providers).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);

// Create an ng1 module to bootstrap.
module_(lazyModuleName, [
    .constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */),
    .factory(INJECTOR_KEY, lazyInjectorKey),
    .factory(lazyInjectorKey, function () {
      // Getting the Angular injector before bootstrapping the corresponding
      // Angular module.
      return injector;
    }),
    .factory(LAZY_MODULE_REF, [lazyModuleRefKey, identity]),
    .factory(lazyModuleRefKey, function ($INJECTOR) {
      return injector;
    }),
    .factory($INJECTOR, function ($injector) {
      setTempInjectorRef($injector);
      var result = {
        promise: bootstrapFn(angular1Providers).then(function (ref) {
          injector = result.injector = new NgAdapterInjector(ref.injector);
          injector.get($INJECTOR);
          return injector;
        })
      };
      return result;
    }),
    .provider.$INJECTOR($provide, function ($injector, $provide) {
      $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
    }),
    .returns(lazyModuleName);
    .function(injector, directive, elementRef) {
      this.injection = injector;
      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);
      this.element = elementRef.nativeElement;
      this.$element = element(this.element);
      this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
    },
    .function(name, $templateCache) {
      var url = getOrCall(directive.templateUrl, this.$element);
      var template = $templateCache.get(url);
      if (template !== undefined) {
        return template;
      } else if (directive.templateUrl) {
        var templateUrl = new Promise(function (resolve, reject) {
          var $httpBackend = this.$injector.get($HTTP_BACKEND);
          $httpBackend('GET', url, null, function (status, response) {
            if (status === 200) {
              resolve($templateCache.put(url, response));
            } else {
              reject("GET component template from " + url + " returned " + status + ": " + response + "'");
            }
          });
        });
        var templateUrl = templateUrl;
      } else if (directive.compile) {
        var compiledTemplate = this.$compile(directive.template)(this.$element);
        this.$element = elementRef.nativeElement;
        this.$element = element(this.element);
        this.$compile = this.$injector.get($COMPILE);
        this.$controller = this.$injector.get($CONTROLLER);
        this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
        this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
        throw new Error("Only support single directive definition for: "+ name);
      }
    }
  ]);"
directive.name + \"\" is not a component, it is missing template.\"\n\nUpgradeHelper.prototype.buildController = function (controllerType, $scope) {  // TODO: Document that we do not pre-assign bindings on the controller instance.\n    var locals = { 'scope': $scope, 'element': this.$element };\n    var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);\n    this.$element.data(this.directiveName, controller);\n    return controller;\n};\n
UpgradeHelper.prototype.compileTemplate = function (template) {  // if (template === undefined) {\n    template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);\n} \n    return this.compileHtml(template);\n};\n
UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {  // if (controllerInstance & & isFunction(controllerInstance.$onDestroy)) {\n    controllerInstance.$onDestroy();\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 (this.element)\n    // https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223\n    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2ab70d86d4d688ec82/src/jqLite.js#L306-L312\n    // `cleanData` will invoke the AngularJS `$destroy` DOM event\n    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2ab70d86d4d688ec82/src/angular.js#L1911-L1924\n    element.cleanData((this.element));\n    element.cleanData(this.element.querySelectorAll('*'));\n};\n
UpgradeHelper.prototype.prepareTransclusion = function () {  var _this = this;\n    var transclude = this.directive.transclude;\n    var contentChildNodes = this.extractChildNodes();\n    var attachChildrenFn = function (scope, cloneAttachFn) {\n        // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if\n        // `$template` is empty. Since the transcluded content comes from Angular, not AngularJS,\n        // there will be no transclusion scope here.\n        // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.\n        scope = scope || { $destroy: function () { return undefined; } };\n        return cloneAttachFn($template, scope);\n    };
    var $template = contentChildNodes;\n    if (transclude) {\n        var slots = Object.create(null);\n        if (typeof transclude === 'object') {\n            $template = [];\n            var slotMap = Object.create(null);\n            var filledSlots = Object.create(null);\n            // Parse the element selectors.\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[slotName] = slotName;\n                slots[slotName] = null; // `null`:
                defined but not yet filled.\n            });\n            // Add the matching elements into their slot.\n            contentChildNodes.forEach(function (node) {\n                var slotName = slotMap[nodename.toLowerCase()];\n                if (slotName) {\n                    filledSlots[slotName] = true;\n                    slots[slotName] = slots[slotName] || [];\n                    slots[slotName].push(node);\n                } else {\n                    $template.push(node);\n                }\n            });\n            // Check for required slots that were not filled.\n            Object.keys(filledSlots).forEach(function (slotName) {\n                Object.keys(slots).filter(function (slotName) { return slots[slotName];\n                    var filledSlots = Object.create(null);\n                    var optional = selector.charAt(0) === '?';\n                    selector = optional ? selector.substring(1) : selector;\n                    slotMap[slotName] = slotName;\n                    slots[slotName] = slots[slotName] || [];\n                    slots[slotName].push(node);\n                });\n                // Attach `$$$slots` to default slot transclude fn.\n                attachChildrenFn.$$slots = slots;\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            }\n        }\n    };\n    return [attachChildrenFn, transclude, function (scope) {\n        // Try to destroy the transclusion scope if\n        // `$template` is empty. Since the transcluded content comes from Angular, not AngularJS,\n        // there will be no transclusion scope here.\n        // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.\n        if (transclude) {\n            var $template = contentChildNodes;\n            if (transclude) {\n                var slots = Object.create(null);\n                if (typeof transclude === 'object') {\n                    $template = [];\n                    var slotMap = Object.create(null);\n                    var filledSlots = Object.create(null);\n                    // Parse the element selectors.\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[slotName] = slotName;\n                        slots[slotName] = null; // `null`:
                        defined but not yet filled.\n                    });\n                    // Add the matching elements into their slot.\n                    contentChildNodes.forEach(function (node) {\n                        var slotName = slotMap[nodename.toLowerCase()];\n                        if (slotName) {\n                            filledSlots[slotName] = true;\n                            slots[slotName] = slots[slotName] || [];\n                            slots[slotName].push(node);\n                        } else {\n                            $template.push(node);\n                        }\n                    });\n                    // Check for required slots that were not filled.\n                    Object.keys(filledSlots).forEach(function (slotName) {\n                        Object.keys(slots).filter(function (slotName) { return slots[slotName];\n                            var filledSlots = Object.create(null);\n                            var optional = selector.charAt(0) === '?';\n                            selector = optional ? selector.substring(1) : selector;\n                            slotMap[slotName] = slotName;\n                            slots[slotName] = slots[slotName] || [];\n                            slots[slotName].push(node);\n                        });\n                        // Attach `$$$slots` to default slot transclude fn.\n                        attachChildrenFn.$$slots = slots;\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                    }\n                };\n            }\n        }\n    });\n}
interpolation as transcluded content and use the fallback
  // content instead.
  // To avoid this
  // 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+.

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) {
    var controllerInstance[key] = requiredControllersMap_1[key];
  });
  // NOTE: Any property already bound in the controller instance will still fail to be detected by AngularJS v1.6+.
  return requiredControllers;
};

UpgradeHelper.prototype.checkIfOptional = function (key) {
  var this_1 = this;
  if (!value && !isOptional) {
    throw new Error("Unable to find required '" + require + "' in upgraded
 .directive '" + this.directive.name);
  }
  else {
    throw new Error("Unrecognized 'require' syntax on upgraded directive '" + this.directive.require || (this.directive.controller && this.directive.name);
  }
};

UpgradeHelper.prototype.checkIfOptional = function (key) {
  var this_1 = this;
  if (!value && !isOptional) {
    throw new Error("Unable to find required '" + require + "' in upgraded
 .directive '" + this.directive.name);
  }
  else {
    throw new Error("Unrecognized 'require' syntax on upgraded directive '" + this.directive.require || (this.directive.controller && this.directive.name);
  }
};

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  var this_1 = this;
  if (!value && !isOptional) {
    throw new Error("Unable to find required '" + require + "' in upgraded
 .directive '" + this.directive.name);
  }
  else {
    throw new Error("Unrecognized 'require' syntax on upgraded directive '" + this.directive.require || (this.directive.controller && this.directive.name);
  }
};

UpgradeHelper.prototype.checkIfOptional = function (key) {
  if (!value) {
    throw new Error("Unable to find required '" + require + "' in upgraded
 .directive '" + this.directive.name);
  }
  else if (isMap(value)) {
    var value_1 = {};
    Object.keys(value).forEach(function (key) { return value_1[key] = _this.resolveRequire(require[key]); });
    return value_1;
  }
  else if (typeof value === 'object') {
    var value_1 = {};
    Object.keys(value).forEach(function (key) { return value_1[key] = _this.resolveRequire(require[key]); });
    return value_1;
  }
  else if (typeof value === 'string') {
    var value = require.match(REQUIRE_PREFIX_RE);
  }
  return value.match(REQUIRE_PREFIX_RE);
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.

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

In this example you can see that we must derive from the `UpgradeComponent` base class but also provide an `@link 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`) in `UpgradeComponent`'s constructor.
* specify all inputs and outputs that the AngularJS component expects to derive from Angular by dependency injection into the base class constructor.

`UpgradeComponent`'s constructor:

```
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
    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);
    this.initializeOutputs();
}
```

`UpgradeComponent`'s `ngOnInit` function:

```
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;
    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.'\n    }
    // Set up outputs
    this.bindings = this.initializeBindings(this.directive);
    // Require other controllers
    var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
    // Hook: $onChanges
    if (this.pendingChanges) {
        this.forwardChanges(this.pendingChanges);
        this.pendingChanges = null;
    }
    // Hook: $onInit
    if (this.controllerInstance &&
        isFunction(this.controllerInstance.SonInit)) {
        this.controllerInstance.SonInit();
    }
    // Hook: $doCheck
    if (this.controllerInstance &&
        isFunction(this.controllerInstance.SdoCheck)) {
        var callDoCheck = function () { return this.controllerInstance.SdoCheck(); };
    }
    // Hook: $unregisterDoCheckWatcher
    this.$componentScope.$parent.$watch(callDoCheck);
    callDoCheck();
    // Linking
    var link = this.directive.link;
    var preLink = typeOf
    link === 'object' &&
    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);
    }
```
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linkFn(this.$componentScope, null, { parentBoundTranscludeFn: attachChildNodes });

if (postLink) {

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

} else {
    this.forwardChanges(changes);
}

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);
    }
}

UpgradeComponent.prototype.$onChanges = 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:
                    throw new Error("Unexpected mapping '" + bindingType + "' in '" + _this.name + "' directive.");
            }
        });
    }

    return bindings;
}

UpgradeComponent.prototype.initializeOutputs = function () {
    var _this = this;
    this.bindings.twoWayBoundProperties.push(propName);

    bindings.propertyToOutputMap[propName] = propName + 'Change';

    bindings, twoWayBoundLastValues.push(INITIAL_VALUE$1);

    bindings.propertyToOutputMap[propName] = propName + 'Change';

    var json = JSON.stringify(context);
    throw new Error("Binding definitions on scope and controller at the same time is not supported.");

    var context = btcIsObject ? directive.bindToController : directive.scope;

    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;

            default:
                throw new Error("Unexpected mapping '" + bindingType + "' in '" + json + "' in '" + _this.name + "' directive.");
        }
    });

    this.bindings.expressionBoundProperties.push(propName);

    bindings.propertyToOutputMap[propName] = propName; var json = JSON.stringify(contex
/**
 * @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
 */

/**
 * @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` 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 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 the `UpgradeModule` 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 `UpgradeModule#upgrading-an-angular-1-service` below.
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks coexisting in a single application.
 * @usageNotes
 * ```ts
 * import {UpgradeModule} from '@angular/upgrade/static';
 * ```
 * See also the `UpgradeModule#examples` below.
 * ### 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 DOM elements differently.
 * 2. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated.
 * 3. 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 AngularJS component at its location in the DOM. See `UpgradeComponent`.
 * 6. 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.
 * 7. Whenever an Angular 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.
 * 1. This means 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. So 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. square brackets (`[...]`) for property binding.
 * 8. Angular is bootstrapped first; AngularJS is bootstrapped second.
 * AngularJS always owns the root component of the application.
 * 9. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.
 * ```ts
 * `UpgradeModule`'s 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.
 * **Core AngularJS services**
 * Importing this `NgModule` will add providers for the core AngularJS services:
 * ```ts
 * `Insensitive`'s 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 DOM for the hybrid upgrade app, and
 * ```
 * Import the `UpgradeModule` into your top level `Angular

---

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* Then inject 'UpgradeModule' into your Angular 'NgModule' and use it to bootstrap the top level

### Upgrading an AngularJS service

* There is no specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:

* Let's say you have an AngularJS service:

```javascript
var ngZone = ngZone;
this.injector = new NgAdapterInjector(injector);
if (ng2Testability.isStable()) {
    ng2Testability.whenStable(newWhenStable.bind(testabilityDelegate, callback));
}
```

* Then you should define an Angular provider to be included in your `NgModule` `providers`:

```javascript
$provide.decorator($$TESTABILITY, [function (intervalDelegate) {
    // Wrap the $interval service so that setInterval is called outside NgZone,
    // but the callback is still invoked within it. This is so that $interval
    // won't block stability, which preserves the behavior from AngularJS.

    var wrappedInterval = function (fn, delay, count, invokeApply) {
        var pass = [];
        for (var _i = 0; _i < arguments.length; _i++) {
            pass[_i - 4] = arguments[_i];
        }
        return _this.ngZone.runOutsideAngular(function () {
            return intervalDelegate.apply(void 0, __spread([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
            })
        })
    }
}
```

* Finally, kick off the whole process, by bootstrapping your top level Angular 'NgModule':

```javascript
 UpgradeModule = /** @class */ (function () {
    function UpgradeModule(
        /** The bootstrap zone for the upgrade application */
        ngZone)
    { this.ngZone = ngZone;
        this.injector = new NgAdapterInjector(injector);
        if (ng2Testability.isStable()) {
            ng2Testability.whenStable(newWhenStable.bind(testabilityDelegate, callback));
        }
    }
```

* Param element the element on which to bootstrap the AngularJS application

```javascript
var injector = _this.injector;
// Cannot use arrow function below because we need the
context
var newWhenStable = function (callback) {
    var originalWhenStable = testabilityDelegate.whenStable;

    var injector = _this.injector;
```

* Use the `$rootScope.$apply`, and running the callback

```javascript
in NgZone will
```

* cause a '$digest already in progress' error if it's in the

* But the callback is still invoked within it. This is so that $interval
* won't block stability, which preserves the behavior from AngularJS.
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var newWhenStable = function (callback) {
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    var injector = _this.injector;
```

* Use the `$rootScope.$apply`, and running the callback

```javascript
in NgZone will
```

* cause a '$digest already in progress' error if it's in the

* But the callback is still invoked within it. This is so that $interval
* won't block stability, which preserves the behavior from AngularJS.
```
setTimeout(function () { _this.ngZone.run(function () {
    return wrappedInterval['cancel'] = intervalDelegate.cancel;
});
}

// We need to do this in the next tick so that we don't prevent the boot
// stabilizing
setTimeout(function () {
    var $rootScope = $injector.get('$rootScope');
    var subscription = _this.ngZone.onMicrotaskEmpty.subscribe(function () {
        if ($rootScope.$$phase)
            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();
    });
    $rootScope.$on('$destroy', function () {
        subscription.unsubscribe();
    });
});

windowAngular.resumeBootstrap = function () {
    var _this = this;
    var args = arguments;
    windowAngular.resumeBootstrap = originalResumeBootstrap;
    return
    ngZone.run(function () {
        return windowAngular.resumeBootstrap.apply(_this, args);
    });
};

// same vm turn.
setInterval(function () { _this.ngZone.run(function
    ( { return fn.apply(void 0, __spread(args)); } ); });
}

return wrappedInterval;

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

windowAngular.resumeBootstrap = function () {
    var originalResumeBootstrap = undefined;
    windowAngular.resumeBootstrap = undefined;

    ngZone.run(function () {
        return windowAngular.resumeBootstrap.apply(_this, args);
    });
};

windowAngular.resumeBootstrap = function () {
    var _this = this;
    var args = arguments;
    return
    ngZone.run(function () {
        return windowAngular.resumeBootstrap.apply(_this, args);
    });
};

/* */  // This file only re-exports items to appear in the public api. Keep it that way.
/* */  * @license
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*/

/**
 * Generated bundle index. Do not edit.
 */

exports.UpgradeComponent = UpgradeComponent;
exports.UpgradeModule = UpgradeModule;
exports.VERSION = VERSION;

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

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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/upgrad
static.umd.min.js.map

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

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */
/**
 * @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
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/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/upgrade.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/upgrade.js

No license file was found, but licenses were detected in source scan.
p;`n  return i = {}, verb("\next\c"), verb("\throw\c"), function (e) { throw e; }, verb("\return\c"), i[Symbol.iterator] = function () { return this; }, i;`n  function verb(n, f) { i[n] = o[n] ? function (v) { return (p = !p) ? { value: __await(o[n](v)), done: n === "\return\c" } : f ? f(v) : v; } : f; }`;n `n  `n  function __asyncValues(o) {`n    if (!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");`n    var m = o[Symbol.asyncIterator], i = {}, verb("\next\c"), verb("\throw\c"), verb("\return\c"), i[Symbol.asyncIterator] = function () { return i = {}, verb("\next\c"), verb("\throw\c"), verb("\return\c"), i[Symbol.asyncIterator] = function () { return (p = !p) ? { value: __await(o[n](v)), done: n === "\return\c" } : f ? f(v) : v; } : f; }`;n  function verb(n, f) { i[n] = o[n] ? function (v) { return (p = !p) ? { value: __await(o[n](v)), done: n === "\return\c" } : f ? f(v) : v; } : f; }`;n  function __importStar(mod) {`n    if (mod && mod.__esModule) return mod;`n    var result = {};`n    if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];`n    var ng = 'ng';`n    var angular = `n`
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    found in the LICENSE file at https://angular.io/license

* 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.

* Make this 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.

* Do not use `createAngularTestingModule` in the same spec as
  `createAngularJSTestingModule`.

* Here is the example application and its unit tests that use
  `createAngularTestingModule` and `createAngularJSTestingModule`.

* This function returns an AngularJS module that is configured to wire up
  AngularJS and Angular injectors without the need to actually bootstrap a
  hybrid application.

* 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.

* Do not use `createAngularTestingModule` in the same spec as
  `createAngularJSTestingModule`.

* Do not use `createAngularTestingModule` in the same spec as
  `createAngularJSTestingModule`.

* Do not use `createAngularTestingModule` in the same spec as
  `createAngularJSTestingModule`.

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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.

* <code-example path="upgrade/static/module.spec.ts"

* region="angularjs-spec"></code-example>

* <code-example>

* <div class="alert is-important">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.

* <div class="alert is-important">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.

* <code-example path="upgrade/static/module.spec.ts"

* region="angularjs-spec"></code-example>

* <code-example>

* <div class="alert is-important">This 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`.

* <div class="alert is-important">The helper setups up globals 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`.

* <code-pane header="module.spec.ts" path="upgrade/static/module.spec.ts"></code-pane>

* <code-pane header="module.ts" path="upgrade/static/module.ts"></code-pane>

* @param angularModules a collection of Angular modules to include in the configuration.

* @publicApi

*/

function createAngularJSTestingModule(angularModules) {
    return module_('$$angularJSTestingModule',[])
        .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */) 
        .factory(INJECTOR_KEY, [
            $INJECTOR,
            function ($injector) {
                testing.TestBed.configureTestingModule({
                    imports: angularModules,
                    providers: [{
                        provide: $INJECTOR, useValue: $injector }
                    ]
                });

                return testing.TestBed.inject(core.Injector);
            }
        ])
        .name;

    createAngularTestingModule = createAngularTestingModule;

    exports.angular_packages_upgrade_static_testing_a = module_

    exports.angular_packages_upgrade_static_testing_b = UPGRADE_APP_TYPE_KEY;

    exports.angular_packages_upgrade_static_testing_d = INJECTOR_KEY;

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

})

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

/**

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* Generated bundle index. Do not edit.

* exports.createAngularTestingModule = createAngularTestingModule;

* exports.angular_packages_upgrade_static_testing_a = module_

* exports.angular_packages_upgrade_static_testing_b = UPGRADE_APP_TYPE_KEY;

* exports.angular_packages_upgrade_static_testing_d = INJECTOR_KEY;

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1047774355_1591199783.98/0/angular-upgrade-9-0-7-src-zi/upgrade-static-testing.umd.min.js.map

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*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1047774355_1591199783.98/0/angular-upgrade-9-0-7-src-zi/static/testing.d.ts

* /opt/ws_local/PERMITS_SQL/1047774355_1591199783.98/0/angular-upgrade-9-0-7-src-zi/static/static.d.ts
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```plaintext
/**
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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/static/upgrade.umd.js

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{"version":3,"file":"static.js","sources":[]}
rc/angular1_providers.ts","../../../../../../packages/upgrade/static/src/util.ts","../../../../../../packages/upgrade/static/src/d
owngrade_module.ts","../../../../../../../packages/upgrade/src/common/src/upgrade_helper.ts","../../../../../../packages/up
grade/static/src/upgrade_component.ts","../../../../../../packages/upgrade/static/src/upgrade_module.ts","../../../../../../pa
ckages/upgrade/static/public_api.ts","../../../../../../packages/upgrade/static/index.ts","../../../../../../packages/upgrade/st
atic/static.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:
IScope): any; }\nexport type IAugmentedJQuery = Node[] & {\n on?: (name: string, fn: () => void) => void;\n
data?: (name: string, value?: any) => any;\n text?: () => string;\n inheritedData?: (name: string, value?: any) =>
any;\n contents?: () => IAugmentedJQuery;\n parent?: () => IAugmentedJQuery;\n empty?: () => void;\n

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angular.element(e) as typeof angular.element

angular.element.cleanData(nodes) as 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, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

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, _ => _ + '/');
}

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) :\n
UpgradeAppType.None;\n}\n\nexport function isFunction(value: any): value is Function {\n return typeof
value === 'function';\n}\n\nexport function validateInjectionKey(\n $injector: IInjectorService,
downgradedModule: string, injectionKey: string,\n attemptedAction: string): void {\n const upgradeAppType =
getUpgradeAppType($injector);\n const downgradedModuleCount = getDowngradedModuleCount($injector);\n\n
// Check for common errors.\n switch (upgradeAppType) {\n case UpgradeAppType.Dynamic:\n case
UpgradeAppType.Static:\n
if (downgradedModule) {\n
throw new Error(\n
`Error while
${attemptedAction}: 'downgradedModule' unexpectedly specified.\\n` +\n
'You should not specify a value for
\\'downgradedModule\\', unless you are downgrading ' +\n
'more than one Angular module (via
\\'downgradeModule()\\').');\n
}\n
break;\n case UpgradeAppType.Lite:\n
if (!downgradedModule &&
(downgradedModuleCount >= 2)) {\n
throw new Error(\n
`Error while ${attemptedAction}:
'downgradedModule' not specified.\\n` +\n
'This application contains more than one downgraded Angular
module, thus you need to ' +\n
'always specify \\'downgradedModule\\' when downgrading components and
injectables.');\n
}\n\n
if (!$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

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private component: any;
private changeDetector!: 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

const componentScope = scope.$new();
linkFs.forEach(linkFn => {
  linkFn(this.scope,
    (clone: Node[]) => {
      compiledProjectableNodes.push(clone);
      this.element.append!(clone);
    });
});

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);

if (this.implementsOnChanges) {
  const inputChanges = this.inputChanges;
  this.inputChanges = {};
  (<OnChanges>this.component).ngOnChanges(inputChanges!);

  this.viewChangeDetector.markForCheck();
}

setupInputs(manuallyAttachView, 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;
    if (attrs.hasOwnProperty(input.attr)) {
      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 `observes`
      // callback.
      let unwatch: Function = this.componentScope.$watch(expr, (currValue: any) => {
        unwatch!(currValue);
      });
      unwatch = null;
    } else if (attrs.hasOwnProperty(input.bindAttr)) {
      expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
      expr = attrs[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      expr = attrs[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
      expr = attrs[input.bracketParenAttr];
    }
    if (expr != null) {
      const watchFn = (prop => (currValue: any, prevValue: any) =>
        this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }
}

hookupNgModel(this.ngModel, this.component);
when inputs change.\n
if (!propagateDigest) {\n
detectChanges();\n
}\n }));\n\n // If not opted out of
propagating digests, invoke change detection on every digest\n if (propagateDigest) {\n
this.componentScope.$watch(this.wrapCallback(detectChanges));\n }\n\n // If necessary, attach the view so that
it will be dirty-checked.\n // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)\n
if (manuallyAttachView || !propagateDigest) {\n
let unwatch: Function|null = this.componentScope.$watch(() =>
{\n
unwatch !();\n
unwatch = null;\n\n
const appRef =
this.parentInjector.get<ApplicationRef>(ApplicationRef);\n
appRef.attachView(this.componentRef.hostView);\n
});\n }\n }\n\n setupOutputs() {\n const attrs =
this.attrs;\n const outputs = this.componentFactory.outputs || [];\n for (let j = 0; j < outputs.length; j++) {\n
const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n
const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n
const bracketParenAttr =\n
`[(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;\n
// order below is important first update bindings then evaluate expressions\n
if (attrs.hasOwnProperty(bindonAttr)) {\n
this.subscribeToOutput(output, attrs[bindonAttr], true);\n
}\n
if (attrs.hasOwnProperty(bracketParenAttr)) {\n
this.subscribeToOutput(output, attrs[bracketParenAttr], true);\n
}\n
if
(attrs.hasOwnProperty(output.onAttr)) {\n
this.subscribeToOutput(output, attrs[output.onAttr]);\n
}\n
if
(attrs.hasOwnProperty(output.parenAttr)) {\n
this.subscribeToOutput(output, attrs[output.parenAttr]);\n
}\n
}\n }\n\n private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {\n
const getter = this.$parse(expr);\n const setter = getter.assign;\n if (isAssignment && !setter) {\n
throw new
Error(`Expression '${expr}' is not assignable!`);\n }\n const emitter = this.component[output.prop] as
EventEmitter<any>;\n if (emitter) {\n
emitter.subscribe({\n
next: isAssignment ? (v: any) => setter
!(this.scope, v) :\n
(v: any) => getter(this.scope, {'$event': v})\n
});\n } else {\n
throw new
Error(\n
`Missing emitter '${output.prop}' on component
'${getTypeName(this.componentFactory.componentType)}'!`);\n }\n }\n\n registerCleanup() {\n const
testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n const destroyComponentRef =
this.wrapCallback(() => this.componentRef.destroy());\n let destroyed = false;\n\n this.element.on !('$destroy', ()
=> this.componentScope.$destroy());\n this.componentScope.$on('$destroy', () => {\n
if (!destroyed) {\n
destroyed = true;\n
testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n
destroyComponentRef();\n
}\n });\n }\n\n getInjector(): Injector { return this.componentRef.injector; }\n\n
private updateInput(prop: string, prevValue: any, currValue: any) {\n if (this.implementsOnChanges) {\n
this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);\n }\n\n
this.inputChangeCount++;\n this.component[prop] = currValue;\n }\n\n groupProjectableNodes() {\n let
ngContentSelectors = this.componentFactory.ngContentSelectors;\n return
groupNodesBySelector(ngContentSelectors, this.element.contents !());\n }\n}\n\n/**\n * Group a set of DOM nodes
into `ngContent` groups, based on the given content selectors.\n */\nexport function
groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {\n const projectableNodes:
Node[][] = [];\n let wildcardNgContentIndex: number;\n\n for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i)
{\n projectableNodes[i] = [];\n }\n\n for (let j = 0, jj = nodes.length; j < jj; ++j) {\n const node = nodes[j];\n
const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);\n if (ngContentIndex != null)
{\n
projectableNodes[ngContentIndex].push(node);\n }\n }\n\n return projectableNodes;\n}\n\nfunction
findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {\n const ngContentIndices:
number[] = [];\n let wildcardNgContentIndex: number = -1;\n for (let i = 0; i < ngContentSelectors.length; i++) {\n
const selector = ngContentSelectors[i];\n if (selector === '*') {\n
wildcardNgContentIndex = i;\n } else {\n
if (matchesSelector(element, selector)) {\n
ngContentIndices.push(i);\n
}\n }\n }\n
ngContentIndices.sort();\n\n if (wildcardNgContentIndex !== -1) {\n
ngContentIndices.push(wildcardNgContentIndex);\n }\n return ngContentIndices.length ? ngContentIndices[0] :
null;\n}\n\nlet _matches: (this: any, selector: string) => boolean;\n\nfunction matchesSelector(el: any, selector:
string): boolean {\n if (!_matches) {\n const elProto = <any>Element.prototype;\n _matches = elProto.matches ||

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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 {
    // Do nothing, if already resolved.
    if (this.resolved) {
      return;
    } else {
      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);
    }
  }
}

/**
 * @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 {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 {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
 * * A helper function that allows an Angular component to be used from AngularJS.
 * @param info contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that
 * - `downgradedModule?: string`: The name of the downgraded module (if any) that the
 * @returns a factory
 * function returns a factory function that we * can use to define the AngularJS directive that wraps the
 * component.
 * For more details and examples on
downgrading Angular components to AngularJS components please * visit the [Upgrade
 * guide](guide#upgradeusingangular-components-from-angularjs-code).
 * * Part of the
 * 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
 * Let's assume that you have an Angular component called `ng2Heroes` that needs
 * to be made available in AngularJS templates.
 * * For more details and examples on
downgrading Angular components to AngularJS components please * visit the [Upgrade
 * guide](guide#upgradeusingangular-components-from-angularjs-code).
 * * Part of the
function that can be used to register the component in an
* AngularJS module.

*publicApi

ꦗunexport

function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?:
boolean; /* @deprecated since v4. This parameter is no longer used */
outputs?: string[]; /* @deprecated since v4. This parameter is no longer used */
});

/** @deprecated since v4. This parameter is no longer used */
inputs?: string[];

/** @deprecated since v4. This parameter is no longer used */
selectors?: string[];
)
);:

export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?:
boolean; /* @deprecated since v4. This parameter is no longer used */
outputs?: string[]; /* @deprecated since v4. This parameter is no longer used */
});

/** @deprecated since v4. This parameter is no longer used */
inputs?: string[];

/** @deprecated since v4. This parameter is no longer used */
selectors?: string[];
):

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 = undefined;
    let

    ranAsync = false;

    if
      !parentInjector || hasMultipleDowngradedModules {
        const downgradedModule = info.downgradedModule
          || '';
        const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;

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

        const

        lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
        moduleInjector =

        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
        // 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

        // - 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

        // - 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

        // 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
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 or use it in a downgraded Angular component from a different module.

When using `downgradeModule()` to downgrade more than one Angular module, it is necessary to specify the `downgradedModule` argument to ensure the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated. As a result, calls to `downgradeModule()` return a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module.

```typescript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    // Code...
  };
  (factory as any)['$inject'] = ['$INJECTOR'];

  return factory;
}
```

When using `downgradeModule()` to downgrade more than one Angular module, it is necessary to specify the `downgradedModule` argument to ensure the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated. As a result, calls to `downgradeModule()` return a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module. The code snippet above demonstrates how to use this function.

```typescript
import {IInjectorService} from 'angular1';

// We have to do a little dance to get the AngularJS injector into the module injector.
let tempInjectorRef: IInjectorService | null = null;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}

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

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks

  return injector.get(token);
}
```

We store the ng1 injector from the module injector, which triggers the provider to read the stored injector and release the reference to it. When Angular locates 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

```typescript
NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  get(token: any) {
    throw new Error('Trying to get the AngularJS injector before it being set.
  }

  get(token: any) {
    // Code...
  };
  (factory as any)['$inject'] = ['$INJECTOR'];

  return factory;
}
```

We store the ng1 injector from the module injector, which triggers the provider to read the stored injector and release the reference to it. When Angular locates 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
any, notFoundValue?: any): any {
  if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
    return notFoundValue;
  }
  return this.modInjector.get(token, notFoundValue);
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * 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, 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 './/.//.//src/common/src/angular1_providers';
import {NgAdapterInjector} from './/.//.//src/common/src/util';


let moduleUid = 0;

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

 * Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid\n * application. Note that the Angular pieces (e.g. downgrade services) will not be\n * available until the downgraded module has been bootstrapped, i.e. by instantiating a downgrade\n * component.\n *
 * You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid\n * application.\n *
 * Use one of the other providers'\n *
 * `UpgradeModule` and `downgradeModule()` do not bootstrap the main AngularJS module\n * inside the [NgZone Angular\n * zone].\n *
 * Unlike `UpgradeModule`, `downgradeModule()` does not automatically run $digest() when changes are\n * detected in the Angular part of the application.\n *
 * What this means is that applications using `UpgradeModule` will run change\n * detection more frequently in order to ensure that both frameworks are properly notified about possible\n * changes.\n *
 * This will inevitably result in more change detection runs than necessary.\n *
 * Changes to `downgradeModule()` on the other side, does not try to tie the two change detection systems\n * tightly, restricting the explicit change detection runs only to cases where it knows it is\n * necessary (e.g. when the inputs of a downgraded component change). This improves performance\n * especially in change-detection-heavy applications, but leaves it up to the developer to manually\n * notify each framework as needed.\n *
 * 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 AngularJS using `\n * [scope.$apply(...)](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply) or\n *
### Downgrading multiple modules

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 a `StaticProvider`.
- When using `@platform` or `@bootstrapModule` 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` module.

### 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 a `StaticProvider`.
- When using `@platform` or `@bootstrapModule` 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` module.

### Example

#### Downgrading a single module

```typescript
import {NgModule} from '@angular/core';
import {PlatformRef} from '@angular/core/src/metadata/host';
import {PlatformLocation, LocationStrategy, HashLocationStrategy} from '@angular/common';
import {BrowserDynamicTestingModule} from '@angular/platform-browser-dynamic/src/factory';
import {UpgradeModule, downgradeModule} from '@angular/upgrade';

@NgModule({
  imports: [BrowserDynamicTestingModule, UpgradeModule],
})
export class AppModule {
  constructor(platform: PlatformRef) {
    // Downgrade the AppModule
    const lazyModuleName = downgradeModule(AppModule);
  }
}
```

### Example

#### Downgrading multiple modules

```typescript
import {NgModule} from '@angular/core';
import {PlatformRef} from '@angular/core/src/metadata/host';
import {PlatformLocation, LocationStrategy, HashLocationStrategy} from '@angular/common';
import {BrowserDynamicTestingModule} from '@angular/platform-browser-dynamic/src/factory';
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@NgModule({
  imports: [BrowserDynamicTestingModule, UpgradeModule],
})
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  constructor(platform: PlatformRef) {
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}
```

### 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 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 a `StaticProvider`.
- When using `@platform` or `@bootstrapModule` 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` module.

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import {BrowserDynamicTestingModule} from '@angular/platform-browser-dynamic/src/factory';
import {UpgradeModule, downgradeModule} from '@angular/upgrade';

@NgModule({
  imports: [BrowserDynamicTestingModule, UpgradeModule],
})
export class AppModule {
  constructor(platform: PlatformRef) {
    // Downgrade the AppModule
    const lazyModuleName = downgradeModule(AppModule);
  }
}
```

### Example

#### Downgrading multiple modules

```typescript
import {NgModule} from '@angular/core';
import {PlatformRef} from '@angular/core/src/metadata/host';
import {PlatformLocation, LocationStrategy, HashLocationStrategy} from '@angular/common';
import {BrowserDynamicTestingModule} from '@angular/platform-browser-dynamic/src/factory';
import {UpgradeModule, downgradeModule} from '@angular/upgrade';

@NgModule({
  imports: [BrowserDynamicTestingModule, UpgradeModule],
})
export class AppModule {
  constructor(platform: PlatformRef) {
    // Downgrade the AppModule
    const lazyModuleName = downgradeModule(AppModule);
  }
}
```
readonly directive: IDirective;
private readonly $compile: ICompileService;
private readonly $controller: IControllerService;
constructor(injector, private name: string, elementRef: ElementRef, element: IElement, S: IDirective) { this.$injector = injector.get($INJECTOR);
this.$compile = this.$injector.get($COMPIL);
this.$controller = this.$injector.get($CONTROLLER);
this.$compile = element.nativeElement;
this.$element = angularElement(this.element);
this.directive = directive || UpgradeHelper.getDirective(this.$injector, name, string): IDirective { const directives: IDirective[] = this.$injector.get(name + 'Directive'); if (directives.length > 1) { throw new Error('Only support single directive definition for: ' + name); } const directive = directives[0]; // AngularJS will transform `link: xyz` to `compile: (); => xyz`. So we can only tell there was an // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. if (directive.compile && !directive.link) notSupported(name, 'compile'); if (directive.replace) notSupported(name, 'replace'); if (directive.terminal) notSupported(name, 'terminal'); return directive;
} getTemplate($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, $scope: IScope) {
// TODO: Document that we do not pre-assign bindings on the controller.
// Quoted properties below so that this code can be optimized with Closure Compiler.
const locals = {'$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();
// 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/2e43cb328533267f17f1e72483779156113f9/src/manipulation.js#L223
// https://github.com/angular/angular.js/blob/26dca5f8301020a3d223f2ba2ab70d4d688c821/src/jqLite.js#L1911-L1924
// 'cleanData' will invoke the AngularJS 'destroy' DOM event
// https://github.com/angular/angular.js/blob/26dca5f8301020a3d223f2ba2ab70d4d688c82/srl/L1911-L1924
angularElement.cleanData([this.element]);
angularElement.cleanData(this.element.querySelectorAll('*'));
this.$element.prepareTransclusion(): ILinkFn|undefined {
const transclude = this.directive.transclude;
const contentChildNodes = this.extractChildNodes();
const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
// Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if
// 'Template' is empty. Since the transcluded content comes from Angular,
ot AngularJS, // there will be no transclusion scope here.
// Provide a dummy 'scope.$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);
if (typeof transclude === 'object') {
Template = [];;
const slotMap = Object.create(null);
const filledSlots = Object.create(null);
// Parse the element selectors.

Object.keys(transclude).forEach(slotName => {
    const optional = selector.charAt(0) === '?';
    const transcludeMap = transclude[slotName];
    const slotName = transcludeMap[slotName] || [];
    const slots = transcludeMap.push(node);
    if (slots[slotName] === true) {
        slots[slotName].push(node);
    } else {
        if (!filledSlots[slotName]) {
            throw new Error('Required transclusion slot "' + slotName + '" on directive: $(' + this.name + ')');
        }
    }
    if (optional) {
        slotMap[slotName] = slotName;
        slots[slotName] = null;
        filledSlots[slotName] = true;
        slots[slotName].push(node);
    } else {
        $template.push(node);
    }
});

Object.keys(filledSlots).forEach(slotName => {
    const selector = filledSlots[slotName] || [];
    const optional = selector.charAt(0) === '?';
    selector = optional ? selector.substring(1) : selector;
    slotMap[selector] = slotName;
    slots[slotName] = null;
    filledSlots[slotName] = optional;
});

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);
    }
});

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);
    };
});

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).
// 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';
    }
});

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    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;
}

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;
            }
        });
    }

    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') {
        return 
    } else if (typeof require === 'string') {
        const match = require.match(REQUIRE_PREFIX_RE) !;
        const constName = require.substring(match[0].length);
        if (name) {
            require[key] = match[0] + key;
        }
    } else if (typeof require === 'function') {
        return require!(controllerInstance)
    } else if (typeof require === 'undefined') {
        return null;
    }

    const match = require.match(REQUIRE_PREFIX_RE) !;
    const constName = require.substring(match[0].length);
    const optional = !!match[2];
    const searchParents = !!inheriType;
    const startOnParent = inheriType === '^~';
    const ctrlKey = controllerKey(name);
    const elem = startOnParent ? this.$element.parent !() : this.$element;
    const name = 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 + '"');
    }
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import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {IAtributes, 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[] = [];
  twoWayBoundLastValues: any[] = [];

  expressionBoundProperties: string[] = [];

  propertyToOutputMap: {
    [propName: string]: string
  } = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
 * Angular templates.
 *
 * ### Examples
 *
 * Let's assume that you have an AngularJS component called `ng1Hero` that needs
 * to be made available in
 * Angular templates:
 *
 * ```
 * @example upgrade/static/ts/full/module.ts region="ng1-hero"
 * ```
 *
 * We must create a `Directive` that will make this AngularJS component
 * available inside Angular templates.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"
 * ```
 *
 * 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, so it
 * Note that we must do the following:
 * * specify the directive's selector (`ng1Hero`) and
 * * specify all inputs and
 * * derive from the `UpgradeComponent` base class but also provide an
 * * The `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
 * * The `constructor` parameters should be acquired from Angular by dependency injection into the base class constructor.
 * * The `this.element = new UpgradeHelper(injector, name, elementRef); this.$injector = this.helper.$injector;` line will put the new component scope onto the new injector for each component.
 * * The `this.$scope = injector.$get($SCOPE);` line will create a new isolated scope if the scope is only

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`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.

4: for each (propName => {

3: const outputName = this.bindings.propertyToOutputMap[propName];

2: (as any)[outputName] = new EventEmitter();

1: (this as any)[outputName] = (value: any) => emitter.emit(value);

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

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();

            (this as any)[outputName] = (value: any) => emitter.emit(value);

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

            if (isFunction(this.bindingDestination.$onChanges)) {

                this.bindingDestination.$onChanges(changes);

            }

            Object.keys(changes).forEach(propName =>

                this.bindingDestination[propName] = changes[propName].currentValue;

            )

    );

    this.bindings.expressionBoundProperties.forEach(propName => {

        const outputName = this.bindings.propertyToOutputMap[propName];

        (this as any)[outputName] = new EventEmitter();

        (this as any)[outputName] = (value: any) => emitter.emit(value);

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

        if (isFunction(this.bindingDestination.$onChanges)) {

            this.bindingDestination.$onChanges(changes);

        }

        Object.keys(changes).forEach(propName =>

            this.bindingDestination[propName] = changes[propName].currentValue;

        )

    });

    if (isFunction(this.bindingDestination.$onChanges)) {

        this.bindingDestination.$onChanges(changes);

    }

    return bindings;

    }

    private bindOutputs() {

        // Bind `&` bindings to the corresponding outputs

        this.bindings.expressionBoundProperties.forEach(propName => {

            const outputName = this.bindings.propertyToOutputMap[propName];

            (this as any)[outputName] = new EventEmitter();

            (this as any)[outputName] = (value: any) => emitter.emit(value);

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

            if (isFunction(this.bindingDestination.$onChanges)) {

                this.bindingDestination.$onChanges(changes);

            }

            Object.keys(changes).forEach(propName =>

                this.bindingDestination[propName] = changes[propName].currentValue;

            )

        });

        this.bindings.propertyToOutputMap = (this as any)[outputName];

        this.bindings.outputNames = Object.keys(this.bindings.propertyToOutputMap);

    }

    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);

        }

    }

}
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 instantiation framework. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.

1. This new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. The `UpgradeModule` class owns this class as an `NgModule`, which you import to provide AngularJS core services.

2. Angular is bootstrapped second. AngularJS always owns the root component of the application.

3. 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.

4. Importing this `NgModule` will add providers for the core AngularJS services.

5. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.

6. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.

### The `UpgradeModule` class

- Core AngularJS services
  - Importing this `NgModule` will add providers for the core AngularJS services
  - **Bootstrap**
    - The runtime instance of this class contains a method, which you use to bootstrap the top level Angular module onto an element in the DOM. It also contains properties to access the root `Injector` and a `bootstrap()` method.

7. Finally, kick off the whole process, by bootstrapping your top level Angular module.

### Examples

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

2. Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level AngularJS module.

### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the recipe:

1. Define an Angular provider to be included in your `NgModule` providers property.
2. Then you can use the upgraded AngularJS service by injecting it into an Angular component.
3. Bootstrap an AngularJS application from this NgModule.

```typescript
@NgModule({
  providers: [angular1Providers]
})
export class UpgradeModule {
  /**
   * The AngularJS `$injector` for the upgrade application.
   */
  public $injector: any /*angular.IInjectorService*/;

  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
   * @param element the element on which to bootstrap the AngularJS application
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   */
  bootstrap(element: Element, modules: string[] = [], config?: {} /*angular.IAngularBootstrapConfig*/) {
    const INIT_MODULE_NAME = 'UpgradeModule.init';

    // Create an ng1 module to bootstrap
    const initModule = angularModule(INIT_MODULE_NAME, [])

    // Set the type of the module
    initModule.type = UpgradeAppType.Static

    // Finally, bootstrapping the module
    initModule.config([INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef))

    // Ensure the root `Injector` is available
    const injector = this.injector;

    // Cannot use arrow function below because we need the context
    const newWhenStable = function(callback: Function) {
        callback(this.injector);
    }
originalWhenStable.call(testabilityDelegate, function() {
  const ng2Testability: Testability = injector.get(Testability);
  if (ng2Testability.isStable()) {
    callback();
  } else {
    ng2Testability.whenStable(newWhenStable);
  }
}
newWhenStable.bind(testabilityDelegate, callback);

testabilityDelegate.whenStable = newWhenStable;
return testabilityDelegate;
}

call(agent, $injector: IInjectorService) {
  this.$injector = $injector;

  // Initialize the ng1 $injector provider
  setTempInjectorRef($injector);
  this.injector.get(INJECTOR);

  // Put the injector on the DOM, so that it can be "required"
  angularElement(element).data(INJECTOR_KEY, this.injector);

  // Wire up the ng1 rootScope to run a digest cycle whenever the zone settles
  // We need to do this in the next tick so that we don't prevent the bootup
  // stabilizing
  setTimeout(() => {
    const $rootScope = $injector.get('$rootScope');
    const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
      if ($rootScope.$$phase) {
        if (isDevMode()) {
          console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.
        }
      }
      const $scope = $rootScope.$evalAsync();
      if ($rootScope.$$phase) {
        return $rootScope.$digest();
      }
    });
    $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });
  }, 0);
}

const upgradeModule = angularModule(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));

// 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(() => {
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* /

/**

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*/

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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/static.js.map

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 */

/**

 * @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');

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[]`, which is not compatible with `@ Sinject?: ReadonlyArray<string>` (used in latest versions).
  $inject?: Ng1Token;
}

export type IInjectable = (Ng1Token | Function)

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, requires: (string|IInjectable)[], config_fn: Injectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: Injectable): IModule;
  factory(key: Ng1Token,
(controllerName: string, locals?: any): any;

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;
  $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;
}

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?): 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
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularLib` 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;
}

// 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 COMPILER_KEY = '$$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$$downgradedModuleCountKey';

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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 name * and attribute have the same identifier. * 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 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 = `\[${this.attr}(${this.attr})\]`;
    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!
  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 '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(Sinjector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
    $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

UpgradeAppType.None

You should not specify a value for \dowgradedModule\' unless you are downgrading \+\n more than one Angular module (via \dowgradedModule\'\(\+\)) \n break;\n case UpgradeAppType.Lite\n if (!\dowgradedModule\&&\n (dowgradedModuleCount >= 2)) \n throw new Error(\n   'Error while $\[attemptedAction\]: \'dowgradedModule\' unexpectedly specified.\n' +
   'You should not specify a value for \dowgradedModule\',
 unless you are downgrading \+\n more than one Angular module (via \dowgradedModule\'(\+\)) \n break;\n case UpgradeAppType.Lite\n if (!\dowgradedModule\&&\n (dowgradedModuleCount >= 2)) \n throw new Error(\n   'Error while $\[attemptedAction\]: \'dowgradedModule\' unexpectedly specified.\n' +
   'This application contains more than one dowgraded Angular module, thus you need to \+\n always specify \dowgradedModule\' when dowgrading components and injectables.\n') \n throw new Error(\n   'Error while $\[attemptedAction\]: Unable to find the specified dowgraded module.\n' +
   'Did you forget to downgrade\n
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an Angular module or include it in the AngularJS `application`?\n
Did you forget to downgrade an Angular module or include it in the AngularJS `application`?\n
// Use the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
`ngUpgrade`).\n
Dynamic:\n
// App using `@angular/upgrade/static` with `UpgradeModule`\n
// App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. 'ngUpgrade'-lite ).\n
Lite:\n
/**
 * @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';
}

/**
 * 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 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 =\n  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.

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 {
    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 = null;

        if (attr.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);
            attr.$observe(input.attr, observeFn); // Use `$watch()` in addition to `$observe()` in order to initialize the input in time
                // for `ngOnChanges()`. This is necessary if we are already in a `D`digest`, which means that
                // `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
                // callback.
            let unwatch: Function|null = this.componentScope.$watch(fn => {
                unwatch();
                unwatch = null;
                observeFn(attr[input.attr]);
            });
            if (attr.hasOwnProperty(input.bindAttr)) {
                expr = attr[input.bindAttr];
            } else if (attr.hasOwnProperty(input.bracketAttr)) {
                expr = attr[input.bracketAttr];
            } else if (attr.hasOwnProperty(input.bindonAttr)) {
                expr = attr[input.bindonAttr];
            } else if (attr.hasOwnProperty(input.bracketParenAttr)) {
                expr = attr[input.bindonAttr];
            }
            if (expr != null) {
                const watchFn =
                    (prop => (currValue: any, prevValue: any) =>
                        this.updateInput(prop, prevValue, currValue))(input.prop);
                this.componentScope.$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);
        const inputChanges = this.inputChanges;
        this.inputChanges = {};
        (<OnChanges>this.component).ngOnChanges(inputChanges);

        if (inputChanges) {
            this.viewChangeDetector.markForCheck();
            this.componentScope.ngOnChanges = () =>
                this.changeDetector.detectChanges();
            this.componentScope.$watch(fn => {
                unwatch();
                unwatch = null;
                const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
                appRef.attachView(this.componentRef.hostView);
            });

            this.subscribeToOutput(output, attr[bindonAttr], true);
            if (attr.hasOwnProperty(bracketParenAttr)) {
                this.subscribeToOutput(output, attr[bracketParenAttr], true);
            }
        }
    }
}
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```typescript
(function (attrs) {
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr]);
  } else {
    throw new Error('Expression '${expr}' is not assignable!');
  }
}

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; }

  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;
  }
}

// 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));\n this.callbacks.length = 0;\n }\n\n then(callback: (value: T)
=> unknown): void {\n if (this.resolved) {\n
callback(this.value !);\n } else {\n
this.callbacks.push(callback);\n }\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\nimport {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type}
from '@angular/core';\n\nimport {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService,
IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';\nimport {$COMPILE,
$INJECTOR, $PARSE, 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';\n\n\n/**\n * @description\n *\n * A helper function that
allows an Angular component to be used from AngularJS.\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 function returns a factory function to be used for registering\n * an AngularJS wrapper directive
for \"downgrading\" an Angular component.\n *\n * @usageNotes\n * ### Examples\n *\n * Let's assume that you
have an Angular component called `ng2Heroes` that needs\n * to be made available in AngularJS templates.\n *\n *
{@example upgrade/static/ts/full/module.ts region=\"ng2-heroes\"}\n *\n * We must create an AngularJS
[directive](https://docs.angularjs.org/guide/directive)\n * that will make this Angular component available inside
AngularJS templates.\n * The `downgradeComponent()` function returns a factory function that we\n * can use to
define the AngularJS directive that wraps the \"downgraded\" component.\n *\n * {@example
upgrade/static/ts/full/module.ts region=\"ng2-heroes-wrapper\"}\n *\n * For more details and examples on
downgrading Angular components to AngularJS components please\n * visit the [Upgrade
guide](guide/upgrade#using-angular-components-from-angularjs-code).\n *\n * @param info contains information
about the Component that is being downgraded:\n *\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()`. It is the module, whose\n *
corresponding Angular module will be bootstrapped, when the component needs to be instantiated.\n * <br />\n *
(This option is only necessary when using `downgradeModule()` to downgrade more than one\n * Angular
module.)\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`,\n * change detection
will still be performed when any of the component's inputs changes.\n * (Default: true)\n *\n * @returns a factory
function that can be used to register the component in an\n * AngularJS module.\n *\n * @publicApi\n */\nexport
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(\n
$compile: ICompileService, $injector: IInjectorService, $parse:
IParseService): IDirective {\n // When using `downgradeModule()`, we need to handle certain things specially. For
example:\n // - We always need to attach the component view to the `ApplicationRef` for it to be\n // dirtychecked.\n // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n //
Angular zone.\n // NOTE: This is not needed, when using `UpgradeModule`, because `$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 => () =>
NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n let ngZone: NgZone;\n\n // When downgrading multiple
modules, special handling is needed wrt injectors.\n const hasMultipleDowngradedModules =\n

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

      validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);\n      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\n    // the same instance, but that is irrelevant)\n    // - 'finalModuleInjector' is used to retrieve 'ComponentFactoryResolver', thus it must
    //   be\n    //   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
downgradedModule\n    //   \n    // If there is a parent component, we bootstrap the downgraded\n    //   'NgModule' and use its injector as both
    \n    '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
            const\n    component\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
    //   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    // If there is a parent component, use its injector as parent injector.\n    // If this is a 'top-level' Angular component, use the
    module\n    // injector\n    const 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
downgrade\n    // 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(\n      element, attrs, scope, ngModel, injector, Scompile, $parse,\n      componentFactory, wrapCallback);\n      const projectableNodes = facade.compileContents();\n      facade.createComponent(projectableNodes);\n      facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
facade.setOutput();
facade.registerCleanup();

injectorPromise.resolve(facade.getInjector());
if (ranAsync) {
  // If this is run async, it is possible that it is not run inside
  // digest and initial input values will not be detected.
  scope.$evalAsync(() => {
    // NOTE: Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
    // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    // wrapCallback(() => doDowngrade([injector, mInjector]))); // Not using `^`ParentInjectorPromise.all() which is inherited from `SyncPromise`, because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
    // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    // then(([pInjector, mInjector]) =>
    // doDowngradeFn(pInjector, mInjector));

    ranAsync = true;
  });
}

const downgradeFn =
    !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(pInjector, mInjector));
    };

// NOTE:
// Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
// Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
// function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
then(([pInjector, mInjector]) =>
  // bracket-notation because of closure - see #1444
  directiveFactory;[
    inject NgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(pInjector, mInjector));

      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(() => {
          // NOTE: Not using `^`ParentInjectorPromise.all() which is inherited from `SyncPromise`, because
          // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
          // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
          // wrapCallback(() => doDowngrade([injector, mInjector]))); // Not using `^`ParentInjectorPromise.all() which is inherited from `SyncPromise`, because
          // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
          // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
          // then(([pInjector, mInjector]) =>
          // doDowngradeFn(pInjector, mInjector));

          ranAsync = true;
        });
      }
    };

    // NOTE:
    // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
    // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    // wrapCallback(() => doDowngrade([injector, mInjector]))); // Not using `^`ParentInjectorPromise.all() which is inherited from `SyncPromise`, because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
    // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    // then(([pInjector, mInjector]) =>
    // doDowngradeFn(pInjector, mInjector));

    ranAsync = true;
  }
};

// bracket-notation because of closure - see #1444
directiveFactory['$injector'] = [
    $COMPILE, $INJECTOR, $PARSE
];
return directiveFactory;
}

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`.
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY);

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data !(this.injectorKey, this);
  }

  resolve(injector: Injector): void {
    // Store the real injector on the element.
    element.data !(this.injectorKey, injector);

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

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

/**
 * @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 {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
 * to instantiate the injectable.
 * (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 [factory function](https://docs.angularjs.org/guide/di) that can be used
 * to register the service on an AngularJS module.
 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const

    // bracket-notation because
    of closure - see #1444
    directiveFactory[
        'injectorKey' = '$injector';
    ] = function(
      const factory = function($injector: Injectable) {
        $injector;

        directiveFactory;
      };

      // NOTE:
      // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
      // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
      // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
      // then(([pInjector, mInjector]) =>
      // doDowngradeFn(pInjector, mInjector));

      ranAsync = true;
    }
  };

  // bracket-notation because
  of closure - see #1444
  directiveFactory['injectorKey' = '$injector';] = function(
      $compile, $injector, $parse
    );

    $injector;

    directiveFactory;

    // NOTE:
    // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or some related tool) complains: // `TypeError: ...srcdowngrade_component_ParentInjectorPromise.all is not a
    // function` // SyncPromise.all([finalParentInjector, finalModuleInjector])
    // then(([pInjector, mInjector]) =>
    // doDowngradeFn(pInjector, mInjector));

    ranAsync = true;
  }
}
$scope.$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(Data);  // `cleanData` will invoke the AngularJS `$destroy` DOM event
    Object.keys(slots).forEach(slotName => {
      if (!filledSlots[slotName]) {
        throw new Error(`Required transclusion slot '${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);
      };
    });
    $template.forEach(node => {
      if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
        node.nodeValue = '\u200C';
      }
    });
    // AngularJS v1.6+ ignores empty or whitespace-only transcluded text
    // nodes. But Angular removes all text content after the first interpolation and updates it later, after
    // evaluating the expressions. This would result in AngularJS failing to recognize text
    // nodes that start with an interpolation as transcluded content and use the fallback
    // content instead.
    // To avoid this issue, we add
    // to empty text nodes (which can only be a result of Angular removing their initial content).
    // NOTE: Transcluded text content that starts with whitespace followed by an interpolation
    // will still fail to be detected by AngularJS v1.6+ Stemplate,forEach(node => {
      if (node.nodeType === Node.TEXT_NODE && '!' nodeValue) {
        node.value = '\u200C';
      }
    });
    resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
      const requiredControllers = this.resolveRequire(this.directive.require);
      if (controllerInstance && this.directive.bindToController) {
        Object.keys(requiredControllersMap).forEach(key => {
          controllerInstance[key] = this.directive.require[key];
        });
      }
    }
    resolveDirectives(): void {
      this.$compile($template, this.directive);
DirectiveRequireProperty {
  const require = this.directive.require || (this.directive.controller &&
  this.directive.name) !;

  if (isObject(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) {
    if (!require) {
      return null !;
    } else if (Array.isArray(require)) {
      return require.map(req => this.resolveRequire(req)) !;
    } else if (typeof require === 'string') {
      const match = require.match(REQUIRE_PREFIX_RE) !;
      const name = require.substring(match[0].length) !;
      if (!name) {
        throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
      }

      return this.resolveRequire(require, controllerInstance) !;
    }

    if (typeof require === 'object') {
      const value: SingleOrListOrMap = {};
      Object.keys(require).forEach(key => value[key] = this.resolveRequire(require[key]) !);
      return value !;
    }

    return getOrCall(require, ...args) !;
  }

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

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

const CAMEL_CASE = /([A-Z])/g;
const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};
const NOT_SUPPORTED: any = 'NOT_SUPPORTED';

export class UpgradeNg1ComponentAdapterBuilder {
  // TODO(issue/24571): remove '!'.
  type !: Type<any>;
  inputs: string[] = [];
  inputsRename: string[] = [];
  outputs: string[] = [];
  outputsRename: string[] = [];
  propertyOutputs: string[] = [];
  checkProperties: string[] = [];
  propertyMap: {
    [name: string]: string
  } = {};
  directive: IDirective|null = null;
  // TODO(issue/24571):
  remove '!'.
  template !: string;

  constructor(public name: string) {
    const selector = name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());
    const self = this;

    // Note: There is a bug in TS 2.4 that prevents us from
    // inlining this into @Directive
    // TODO(tbosch): find or
    // file a bug against TypeScript for this.
    const directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename};

    @Directive({jit: true, ...directive})
    class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck,
        OnDestroy {
      constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
        super(new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,
            self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) as any;
      }
    }

    this.type = MyClass;
  }

  extractBindings() {
    const 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.`);
    }

    const context = typeof this === 'function' ? function() {
      return new MyClass();
    } : MyClass;

    return context;
`definition.substring(bindingOptions === '?' ? 2 : 1) || propName;`  // QUESTION: What about `=*`? Ignore?
Throw?

const inputName = "input_${attrName}"; const inputNameRename = `\${inputName}`; const outputName = `\${outputName}`; const outputNameRename = `\${outputName}`;

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:
    const json = JSON.stringify(context);
    throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
}
`
function (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) { 
  this.controllerInstance.$postLink(); 
}

ngOnChanges(changes: SimpleChanges) { 
  const ng1Changes: any = {}; 
  Object.keys(changes).forEach(name => { 
    const change = changes[name]; 
    if (isFunction(this.destinationObj && change)) { 
      this.destinationObj[change] = change; 
    } 
  }); 
}

setComponentProperty(name: string, value: any) { 
  this.destinationObj && this.propertyMap[name] = value; 
}

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 {downgradeComponent} from '../../common/src/downgrade_component';
import {downgradeInjectable} from '../../common/src/downgrade_injectable';
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. (See [UpgradeAdapter#downgradeNg2Component()])
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks\n *    coexisting in a single application.\n * 4. Angular components always execute inside Angular framework codebase regardless of\n *    where they are instantiated.\n * 5. An AngularJS component can be upgraded to an Angular component. This creates\n *    Angular directive, which bootsraps the AngularJS component directive in that location.\n * 6. An Angular component can be downgraded to an AngularJS component directive. This creates\n *    an AngularJS directive, which bootsraps the Angular component in that location.\n * 7. Whenever an adapter component is instantiated the host element is owned by the framework\n *    doing the instantiation. The other framework then instantiates and owns the view for that\n *    component. This implies that component bindings will always follow the semantics of\n *    the\n *    instantiation framework. The syntax is always that of Angular syntax.\n * 8. AngularJS is always\n *    bootstrapped first and owns the bottom most view.\n *
 * The new application is running in Angular zone, and therefore it no longer needs calls to\n *  `$apply()` \n *    Example\n *  `\n *    const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);\n * `\n */

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angular.module('myExample', []).directive('ng2Comp', angular.module('myExample', []).directive('ng2Comp', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}]!<span ng-transclude></span>',
    transclude: true
  }
});

myExample.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));

adapter.upgradeNg1Component('ng1Hello');

myExample.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}]!<span ng-transclude></span>',
    transclude: true
  }
});

myExample.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));

adapter.upgradeNg1Component('ng1Hello');

myExample.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}]!<span ng-transclude></span>',
    transclude: true
  }
});

myExample.component('ng2Component', { template: '<ng2-comp name="World">project</ng2-comp>', directives: [] });

myExample.service('UpgradeAdapter', function() {
  return new UpgradeAdapter();
});

AngularJS and Angular components can coexist in the same DOM. Use `upgradeNg1Component` to create an AngularJS directive from an Angular component. The adapter will bootstrap the Angular component from within the AngularJS template.

```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);
module.directive('greet', adapter.downgradeNg2Component(Greeter));

@component({
  selector: 'greet',
  template: '{{salutation}} {{name}}! - <ng-content></ng-content>
})
class Greeter {
  @Input() salutation: string;
  @Input() name: string;
}

@NgModule({
  declarations: [Greeter],
  imports: [BrowserModule]
})
class MyNg2Module {}
```

UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.
by Angular, but the component’s view will be controlled by

* AngularJS

### Supported Features

* - Bindings:
  * - Attribute: `<comp name="World">`
  * - Interpolation: `{{ Hello { [name] } ! }}`  
  * - Expression: `<comp [name]="username">`  
  * - Event: `<comp (close)="doSomething()">`  
  * - Transclusion: yes

* - Only some of the features of

  * [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are

* - `template-url`: supported in `attribute: name`  
  * - `terminals`: ignored

* - `transclude`: supported.

(Note: `inject` into `Satsrs` and `transclude` are not supported.)

* - `controller`: supported.

(Note: only pre-link function is supported.)

* - `priority`: ignored.

* - `replace`: not supported.

* - `require`: supported.

* - `restrict`: must be set to `E`.

* - `scope`: supported.

* - `transclude`: supported.

* - `template-url`: supported.

* - `terminal`: ignored.

* - `transclude`: supported.

* * *  

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);

module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));

@Controller({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>'
})
class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
});
```

UpgradeAdapter(forwardRef() => MyNg2Module);  

const module = angular.module('myExample', []);

* const module = angular.module('myExample', []);

* @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.

* ### Example

```typescript
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);

module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));

@Controller({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>'
})
class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
});
```

UpgradeAdapter(forwardRef() => MyNg2Module);  

const module = angular.module('myExample', []);

* const module = angular.module('myExample', []);

* @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.

* ### Example

```typescript
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);

module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));

@Controller({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>'
})
class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
});
```

UpgradeAdapter(forwardRef() => MyNg2Module);  

const module = angular.module('myExample', []);

* const module = angular.module('myExample', []);

* @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.

* ### Example

```typescript
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);

module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));

@Controller({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>'
})
class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
});
```
angular.module('myExample', []);\n * module.directive('ng2', adapter.downgradeNg2Component(Ng2));\n *\n *
module.directive('ng1', function() {\n * return {\n *
scope: { title: '=' },\n *
template: 'ng1[Hello
{{title}}!](<span ng-transclude></span>)'\n * };\n * });\n *\n *\n * @Component({\n * selector: 'ng2',\n
* inputs: ['name'],\n * template: 'ng2[<ng1 [title]=\"name\">transclude</ng1>](<ng-content></ng-content>)'\n
* })\n * class Ng2 {\n * }\n *\n * @NgModule({\n * declarations: [Ng2,
adapter.upgradeNg1Component('ng1')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n * document.body.innerHTML = '<ng2 name=\"World\">project</ng2>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *
\"ng2[ng1[Hello World!](transclude)](project)\");\n * });\n
* ```\n */\n bootstrap(element: Element, modules?: any[], config?: IAngularBootstrapConfig):\n
UpgradeAdapterRef {\n this.declareNg1Module(modules);\n\n const upgrade = new UpgradeAdapterRef();\n\n
// Make sure resumeBootstrap() only exists if the current bootstrap is deferred\n const windowAngular = (window
as any /** TODO #???? */)['angular'];\n windowAngular.resumeBootstrap = undefined;\n\n this.ngZone.run(()
=> { bootstrap(element, [this.ng1Module.name], config !); });\n const ng1BootstrapPromise = new
Promise((resolve) => {\n
if (windowAngular.resumeBootstrap) {\n
const originalResumeBootstrap: () =>
void = windowAngular.resumeBootstrap;\n
windowAngular.resumeBootstrap = function() {\n
windowAngular.resumeBootstrap = originalResumeBootstrap;\n
const r =
windowAngular.resumeBootstrap.apply(this, arguments);\n
resolve();\n
return r;\n
};\n
} else {\n
resolve();\n
}\n });\n\n Promise.all([this.ng2BootstrapDeferred.promise,
ng1BootstrapPromise]).then(([ng1Injector]) => {\n
angularElement(element).data
!(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n
this.moduleRef
!.injector.get<NgZone>(NgZone).run(\n
() => { (<any>upgrade)._bootstrapDone(this.moduleRef,
ng1Injector); });\n }, onError);\n return upgrade;\n }\n\n /**\n * Allows AngularJS service to be accessible
from Angular.\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * class Login { ... }\n * class Server { ...
}\n *\n * @Injectable()\n * class Example {\n * constructor(@Inject('server') server, login: Login) {\n *
...\n * }\n * }\n *\n * const module = angular.module('myExample', []);\n * module.service('server',
Server);\n * module.service('login', Login);\n *\n * const adapter = new UpgradeAdapter(MyNg2Module);\n *
adapter.upgradeNg1Provider('server');\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n * const example: Example =
ref.ng2Injector.get(Example);\n * });\n *\n * ```\n */\n upgradeNg1Provider(name: string, options?: {asToken:
any}) {\n const token = options && options.asToken || name;\n this.upgradedProviders.push({\n
provide:
token,\n
useFactory: ($injector: IInjectorService) => $injector.get(name),\n
deps: [$INJECTOR]\n });\n
}\n\n /**\n * Allows Angular service to be accessible from AngularJS.\n *\n * @usageNotes\n * ###
Example\n *\n * ```\n * class Example {\n * }\n *\n * const adapter = new
UpgradeAdapter(MyNg2Module);\n *\n * const module = angular.module('myExample', []);\n *
module.factory('example', adapter.downgradeNg2Provider(Example));\n *\n * adapter.bootstrap(document.body,
['myExample']).ready((ref) => {\n * const example: Example = ref.ng1Injector.get('example');\n * });\n *\n *
```\n */\n downgradeNg2Provider(token: any): Function { return downgradeInjectable(token); }\n\n /**\n *
Declare the AngularJS upgrade module for this adapter without bootstrapping the whole\n * hybrid application.\n
*\n * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.\n *\n * @param modules
The AngularJS modules that this upgrade module should depend upon.\n * @returns The AngularJS upgrade
module that is declared by this method\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * const
upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n * upgradeAdapter.declareNg1Module(['heroApp']);\n
* ```\n */\n private declareNg1Module(modules: string[] = []): IModule {\n const delayApplyExps: Function[] =
[];\n let original$applyFn: Function;\n let rootScopePrototype: any;\n let rootScope: IRootScopeService;\n
const upgradeAdapter = this;\n const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);\n
const platformRef = platformBrowserDynamic();\n\n this.ngZone = new NgZone({enableLongStackTrace:
Zone.hasOwnProperty('longStackTraceZoneSpec')});\n this.ng2BootstrapDeferred = new Deferred();\n

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ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)
.ng1Module.factory(INJECTOR_KEY, () => this.moduleRef !.injector.get(Injector))
.ng1Module.factory(LAZY_MODULE_REF, [INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef))
.ng1Module.constant(NG_ZONE_KEY, this.ngZone)
.ng1Module.factory(COMPILE_KEY, () => this.moduleRef !.injector.get(Compiler))
.ng1Module.config([ '$provide', 'Sinjector', 'ng1Injector' ]
    (provide: IProvideService, ng1Injector: IInjectorService) => {
      if (ng1Injector.has($$TESTABILITY)) {
        provide.decorator($$TESTABILITY, ['$delegate', function(testabilityDelegate: ITestabilityService) {
          const originalWhenStable: Function = testabilityDelegate.whenStable;
          const newWhenStable = function(this: unknown, callback: Function) {
            originalWhenStable.call(this, function(this: unknown) {
              const ng2Testability: Testability =
                  upgradeAdapter.moduleRef !.injector.get(Testability);
              if (ng2Testability.isStable()) {
                callback.apply(this, arguments);
              } else {
                ng2Testability.whenStable(newWhenStable.bind(this, callback));
              }
            });
            testabilityDelegate.whenStable = newWhenStable;
            return testabilityDelegate;
          }
        });
      }
      ng1Module.run(['$injector', '$rootScope', (ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
        UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector).then(() => {
          const ngModule = {
            providers: [{ provide: $INJECTOR, useFactory: () => ng1Injector },
              { provide: $COMPILE, useFactory: () => ng1Injector.get($COMPILE) }, this.upgradedProviders
            ],
            imports: [resolveForwardRef(this.ng2AppModule)],
            entryComponents: this.downgradedComponents
          };
          @NgModule({jit: true, ...ngModule})
          class DynamicNgUpgradeModule {
            constructor() {}
            ngDoBootstrap() {}
          }
          platformRef
            .bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions !, {ngZone: this.ngZone}])
            .then(ref => {
              if (rootScopePrototype) {
                rootScopePrototype.$apply = original$applyFn;  // restore original $apply
                while (delayApplyExps.length) {
                  rootScope.$apply(delayApplyExps.shift());
                }
                rootScopePrototype = null;
              }
            });
        });
      }
    });

    ng1Module.run(['$injector', '$rootScope', (ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
      const ngModule = {
        providers: [{ provide: $INJECTOR, useFactory: () => ng1Injector },
          { provide: $COMPILE, useFactory: () => ng1Injector.get($COMPILE) }, this.upgradedProviders
        ],
        imports: [resolveForwardRef(this.ng2AppModule)],
        entryComponents: this.downgradedComponents
      };
      @NgModule({jit: true, ...ngModule})
      class DynamicNgUpgradeModule {
        constructor() {}
        ngDoBootstrap() {}
      }
      platformRef
        .bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions !, {
          ngZone: this.ngZone
        }])
        .then(ref => {
          if (rootScopePrototype) {
            rootScopePrototype.$apply = original$applyFn;  // restore original $apply
            while (delayApplyExps.length) {
              rootScope.$apply(delayApplyExps.shift());
            }
          }
        });
    });

    return ng1Module;
  }
})

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's $compile.
 * @class ParentInjectorPromise
 */
class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private
callbacks: ((injector: Injector) => any)[] = []; unin constructor(private element: IAugmentedJQuery) {
  // store the promise on the element.data (!controllerKey(INJECTOR_KEY), this); unin then(callback: (injector: Injector) => any) { unin if (this.injector) unin { unin this.callbacks.push(callback); unin } unin } unin resolve(injector) unin { unin this.injector = injector; unin // reset the element data to point to the real injector unin this.element.data (!controllerKey(INJECTOR_KEY), injector); unin } unin // clean out the element to prevent memory leaks unin this.element = null unin // run all the queued callbacks unin this.callbacks.forEach(callback => callback(injector)); unin this.callbacks.length = 0 unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin 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unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin unin 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pDjC, EAActQ, UAUAwSoBAAAsB, WAC1C, IAA1I1M, EAAQrH, KARCwrT, EAAaxT, KAAKuR, UAUAuIC, WAC5BC, EAoABzT, KAAKOT, oBACZBc, EAAMb, SAUvL, EAoAwL, GAMpC, OAAOA, EAAcC, EADrBzL, EAAQQA, GAAS, CAAEKG, SAAU, gBAG7BwF, EAAY1, EACbB, GAIAID, EAAY, CACZC, IAA1IM, EAAEUxT, OAAOu, OAAO, OAAAO, MAC5B, GAAB0b, iBAAwfs, EAAYb, CACChCK, EAAY, GACZC, IAA1IE, EAAYzT, OAAOu, OAAO, MAC1B7gT, EAAGBT, OAAOu, OAAO, MAECvC, OAAO2T, KAAKT, GAAYK, SAAQ, SAAU4K, GAACc, IAA17E, EAAwEmE, WACU, GAACBC, EAAMC, MAABvB9E, EAAShK, OAAO, GAC/BgK, EAAAw8E, EAAw9E, EAAASB, UAUA, GAAK8b, EAC9c0, EAAU1E, GAAAY6e, EACbCT, EAAYQI, GAAY, KACCF, EAACE, EAoAqFF, KAC9BV, EAABkNk, SAAQ, SAUAYF, GACChC, IAA1mF, EAAMWH, EAALzBnC, SAASK, EAAMBiO, GACbX, OAAOA, EAALK6L, QAAAqPm, EAAYb, IACxCoM, QAAMqM, GAACgC, SAUuY, EACGc, GAUA, OAAO, EAAOOhP, iBAgBzC8O, CAAMBrF, EAAwKF, SAA5C, gBACDtN, GACFAC, IAA1B, EAQI1, GAAAYJ, EAQI1, IAAsA, GACcJ, EAAQI, GAAUQ, KAA4L, IAIgBv8E, EAUAUQ, KAA4L, MAIVbZ0O, OAAO2T, KAAKT, GAAKd, AA1E1K, SAAQ, SAAU4K, GACZC, IAAAKF, EAAeC, GACF, IAA1Y3Q, MAAM, +BAIC2Q, EAAM, wBAqB7M, EAAmBnM, SAG/F5F, OAAO2T, KAAKd, GAA5W, QAQAOP, GAAAOJ, EAAQI1, QAAMC5K, SAAQ, SAAU4K, GAC7F, IAAI9P, EAAQOP, EAAQI, GACbP, EAAQI1, GAAAY, SAAU9L, EAAMoM, GACcC, OAAOA, EAAyTQ, EAAoAQE, OAAKuL, EAALiBbG, QAUAEE, EA3W3B, EAAUVk, SAAQ, SAUAYH, FGACebra, EAAMBi, WAA1C, KAAK2E, WAA1C7E, EAAK8F, YAAC1C9F, EAAK8F, UAAY, QA17b, OAAOIB, GAEXcT, EAActQ, UAUAU+T, kCAAOc, SAAU1B, GACIE, IAA12b, EAAMbU, KAAKgV, sBAcXBC, EAAsbY, KAAKTV, eAaEHAC9C, GAA13B, GAAsBPt, KAAKuRUA, UA4Dk, BAAOcBCEAA, MLA, GAAbM, CACF, IAA1M, EAAM2B, EACB1U, OAAO2T, KAAKObg, GAA0bL, SAAQ, SAAUxH, GACpDrE, EAAMBiR, GAAOuT, EAAYbV, MGAD3, OAAO7T, GAE5D, EAActQ, UAAMMS, YAAC, SAUAOc, GAE5C, OADAT, V, KAA4DQ, QAQAQR, UAAAYD, EAICBV, KAAKUI, SAAV1K, KAA4KD, QAQAQR, rAeAcE, EAAeCtQ, UAAMU2k, BAAOoB, WAGCf, IAAF, IAC1+b, EADD, EADA, DAAEGV, EAAAYV, ZAAMd, QAQAQR, YAA5YF, GACZBD, EAAMWS, KAAKsS, GAEPb, OAAODD, GAEXeN, EAActQ, UAUAUU, oBAAASb, WAC1C, IAA1kV, EAUAQV, KAAKuR, UAUAUR, SAAAYQ, KAAKuR, UAUAwB, YAACs, KAAKuU, UAUAUL, WAKFw, OAVI1Kp, EAAM5V, IACncN, OAAOcM, KAAK2U, GAA58s, SAAAXH, GAACcC, IAA1BsL, EAAQ5D, EAAQ5C, GACHB8T, EAQQsS, EAAwMS, MAAMsE, GACelho, EAAAmk, UAUAqLe, EAM, GAAQPu, UAEmCh, EAAQSCE, GAAO8T, EAAEM, GAAK97T, MAI/Bc, GAE6XR, EAActQ, UAAMUMc, AAI1b, SAAU1V, EAA4ST, GACxD, IAA1L, EAAQrH, KACZC, GAARK, EAGA, CAAA, GAAbI, MAAMoV, QAQQwR, GACnB0, OAAOA, EAA4QJ, KAA4L, SAAU0M, GAAB0, OAAoZo, EAAEM6N, eAaEY, MEA/D, GAAoBu, BAAZwE, EAASb, CACIC, IAAuLw, EAAU, GAED, OADAZV, OAAO2T, KAAKuz, GAAASJ8, SAAQS, SAAUXH, GAAG, OAAOAUI, EAAOQjU, GAOUoF, EAAMN6, eAAe1V, EAAQsC, OAC1FIU, EAEE, GAANbU, BAAzYw, EAASb, CACIC, IA McAIo, EAAQwP, EAAQwowM, EAMAXE, GACBi4E, EAQAOc, IAAM, IAAM, EAMC, GACHCK, EAASwV, EAQQq+, UAAUqL, EAM, GAAGPqU, QAAPCUO, IAANeNEAM, GACrBO, IAAKbH, EACBlI, EAAGcC, OAAhBj, EAChBK, EAAUpQ, EAAAcqQ, GACXbK, EAEOF, EAAGBpW, kAAKyR, SAA5sH, SAAwJ, KAAKYR, SACCrD0, EAQO5+, SAAAGB, EAACKc, cAAPF, GAAWCEAAKFnK, FAAKf, GACpE, IAAgK, IAAU8S, EACX, KM, AAIA13S, MAAM4, ABA8B/D, EAAU4, 4BA8BQK, KAAKG, KAAO, MAETo, OAAO9C, GAEPG, MAAM, IAAIG, MAAM, wDA0Adv, KAAKkg, KAAO, MAAQ1G, GAB19F9, OAAOA, MA6BR6R, EAI0uB, ;;;;;;;;;, OAw0IC, SAAse, EAAUUeO, GAET, IAIDA, IAIA1CE, EAAAO, GAACFC, EAAE, EAAAKG, EAAKuNv, UAAUC, OAAQKV, IAACPcD, EAAEC, EAAAK, GAAnKv, UAAUmV, GAE7B, OAA07P, EAAw2P, GAAYA, EAAAS9U, WAAM, EAIoCyd, SAAStV, IAACL, IAAkI, IAA13T, EAAk, GAAISB, EAAE, IAAIGE, GAAAE, IAAUE, OAAUQ, IAAQHC, IAC3C2B, EAAKAb, OAAQ4T, OAAOuBo, UAUAUF, KACpC, OAA02B, EAuoC8C2T, CACSF, IAASD, EAG3S, ASApB, EAAoMh, GACX, OAAOA, IAA13C, MAAMoV, QAQQsZ, IAA1b2b, iBAVAA, EAAEdP, SAAAS00, AAeA5L, EAM2Q, GACxB, MAAM, IAAIT, MAAM, uBAAYB2c, EAAO, OAAAsC2Q, EAAU;;;;;;;;;, OAUqG, IAACIC, EAAE, WABC, EAAKcB, CACCB90, mBAAmB, GAcN+O, EAAMd, WAcnd, SAAS, EAAcK9Q, GACVcIG, KAAKG, KAAOA, EACZIG, KAA4L4b, GACId, KAAKX, AXaAC, GACpBkJ, KAAKoN, QAUAQ, GACpF, KAAKXc, cAAcG, B, GACrBlX, KAAKmX, gBAKbG, GACVbNk, KAAKOx, gBAKbG, GACVbP, KAAKqX, YAAc, GACNbrX, KAAKur1, UAAAY, KACCB, IAIA1IE, EAAwN1e, EAALK6L, QAQP+, GAAAY, SAAUXG, EAAKrn, GAAQAQ, MAAO, IAAM, EAARKu, iBAC7EU, EAOK, KAIpUR, EAAEY, CAAAEC, SAAUA, EAAU2D, OAAQ5L, KAAKX, xAcAc7J, QAASNP, KAAKXk, xAC3E1, EAAYb, SAAUaG, GAEcC, SAAcSg, EAAQIP, EAAEOeE, EAAUeN, GAG9B, OADQL, EAAOxP, KAAKzB, KAAAM, IAIA1qR, EAAcN, EAAUcQ, EAAMMoL, EAYAY3R, EAAK4R, gBAxXn, GAAAYqE, EAAOozl, EAA
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*****************************************************************************

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*****************************************************************************
```javascript
// Function to get the downgraded module count
function getDowngradedModuleCount($injector) {
    return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

// Function to get the upgrade app type
function getUpgradeAppType($injector) {
    return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : 0;
}

// Function to validate injection key
function validateInjectionKey($injector, downgradedModule, injectionKey) {
    var upgradeAppType = getUpgradeAppType($injector);
    var downgradedModuleCount = getDowngradedModuleCount($injector);
    // Check for common errors.
    switch (upgradeAppType) {
        case 1 /* Dynamic */:
        case 2 /* Static */:
            if (downgradedModule) {
                throw new Error("Error while " + attemptedAction + ": 'downgradedModule' unexpectedly specified."
                        + 'You should not specify a value for \downgradedModule\, unless you are downgrading ' +
                        'more than one Angular module (via \downgradeModule\).');
            }
            break;
        case 3 /* Lite */:
            if (!downgradedModule && (downgradedModuleCount >= 2)) {
                throw new Error("Error while " + attemptedAction + ": 'downgradedModule' 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 downgraded module."
                        + 'Did you forget to downgrade an Angular module or include it in the AngularJS application?\n'}
            break;
        default:
            throw new Error("Error while " + attemptedAction + ": Not a valid '@angular/upgrade' application."
                        + 'Did you forget to downgrade an Angular module or include it in the AngularJS application?\n'}
            break;
    }
}
```

```typescript
// Function to support AngularJS 'ng-model' compatibility
function supportsNgModel(component) {
    return typeof component.writeValue === 'function' &&
        typeof component.registerOnChange === 'function';
}

// Function to hookup AngularJS 'NgModelController'
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));
        }
    }
}
```

```typescript
// Function to test for strict equality
function strictEquals(val1, val2) {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
}
```

---

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```javascript
var INITIAL_VALUE = {__UNINITIALIZED__: true};
```

---

```typescript
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.parentInjector = parentInjector;
        this.Sidebar = $injector;
        this.Scompile = $compile;
        this.wrappCallback = wrapCallback;
        this.implementsOnChanges = false;
        this.inputChangeCount = 0;
        this.parentInjector = parentInjector;
        this.Sidebar = $injector;
        this.Scompile = $compile;
        this.wrappCallback = wrapCallback;
    }
    DowngradeComponentAdapter.prototype.compileContents = function () {
        var _this = this;
        var compiledProjectableNodes = [];
        var projectableNodes = this.groupProjectableNodes();
        var linkFns = projectableNodes.map(function (nodes) { return
```
```

DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
    var providers = [{
        provide: $SCOPE,
        useValue: this.componentScope
    }];
    var childInjector = core.Injector.create({
        providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'
    });

    this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);

    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;

    hookupNgModel(this.ngModel, this.component);

    var _this = this;
    DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
        var inputs = this.componentFactory.inputs || [];
        var _loop_1 = function (i) {
            var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
            var expr = null;
            if (inputs[i].isAttr) {
                var observeFn_1 = (function (prop) {
                    var prevValue = INITIAL_VALUE;
                    return function (currValue) {
                        // 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);
                inputs[i].observeFn = observeFn_1;
                if (inputs[i].isOnChange) {
                    var watchFn = (function (prop) { return function (currValue, prevValue) {
                        return _this.updateInput(prop, prevValue, currValue);
                    }; })(input.prop);
                    inputs[i].watchFn = watchFn;
                }
            }
        };
        for (var i = 0; i < inputs.length; i++) {
            _loop_1(i);
        }
    }

    var this_1 = this;
    var detectChanges = function () {
        return this.changeDetector.detectChanges();
    }
    var implementOnChanges = function () {
        return this.componentFactory.componentType.prototype.implementsOnChanges();
    }
    var wrapCallback = function (fn) {
        return function () {
            return fn();
        };
    }

    var this_2 = this;
    var detectChanges = function () {
        return this.changeDetector.detectChanges();
    }
    var implementOnChanges = function () {
        return this.componentFactory.componentType.prototype.implementsOnChanges();
    }
    var wrapCallback = function (fn) {
        return function () {
            return fn();
        };
    }
```
Open Source Used In MSX SD-Branch Service Pack 3.9.0

```javascript
// 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) {
  var unwatch_2 = this.componentScope.$watch(function () {
    unwatch_2();
  });

  var appRef = _this.parentInjector.get(core.ApplicationRef);
  appRef.attachView(this.componentRef.hostView);
}

// 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.)
DowngradeComponentAdapter.prototype.setupOutputs = function () {
  var attrs = this.attrs;
  var 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);
    }
    if (attrs.hasOwnProperty(output.onAttr)) {
      this.subscribeToOutput(output, attrs[output.onAttr], true);
    }
    if (attrs.hasOwnProperty(output.parenAttr)) {
      this.subscribeToOutput(output, attrs[output.parenAttr], true);
    }
  }
}

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;
  var groupNodesBySelector = function (selector) {
    var projectableNodes = [];
    for (var i = 0; i < ngContentSelectors.length; i++) {
      projectableNodes[i] = [];
    }
    var i = 0;
    var j = 0;
    var k = 0;
    var l = 0;
    var m = 0;
    var n = 0;
    var o = 0;
    var p = 0;
    var q = 0;
    var r = 0;
    var s = 0;
    var t = 0;
    var u = 0;
    var v = 0;
    var w = 0;
    var x = 0;
    var y = 0;
    var z = 0;
    for (var i = 0; i < ngContentSelectors.length; i++) {
      for (var j = 0; j < ngContentSelectors[i].length; j++) {
        var node = ngContentSelectors[i][j];
        if (node.nodeType === core.ELEMENT_NODE) {
          projectableNodes[i][j] = node;
        }
      }
    }
    return projectableNodes;
  };

  function findMatchingNgContentIndex(element, ngContentSelectors) {
    var ngContentIndices = [];
    var wildcardNgContentIndex;
    for (var i = 0; i < ngContentSelectors.length; i++) {
      if (ngContentSelectors[i].length === 0) {
        wildcardNgContentIndex = i;
      } else {
        var wildcardNgContentIndex = -1;
        for (var i = 0; i < ngContentSelectors.length; i++) {
          if (ngContentSelectors[i].length === 0) {
            wildcardNgContentIndex = i;
          }
        }
        ngContentIndices[i] = wildcardNgContentIndex;
      }
    }
    return ngContentIndices;
  }

  return new NgContentIndices(ngContentIndices, this.element.contents());
}
```
```javascript
    i++) {
            var 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;
    }
    var _matches;
    function matchesSelector(el, selector) {
        if (!_matches) {
            var elProto = Element.prototype;
            _matches =
                elProto.matches ||
                elProto.matchesSelector ||
                elProto.mozMatchesSelector ||
                elProto.msMatchesSelector ||
                elProto.webkitMatchesSelector ||
                elProto.oMatchesSelector;
        }
        return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
    }

    /**
     * @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
     */
    function isThenable(obj) {
        return !!obj && isFunction(obj.then);
    }
    /**
     * Synchronous, promise-like object.
     */
    var SyncPromise =
        /** @class */ (function () {
            function SyncPromise() {
                this.resolved = false;
                this.callbacks = [
                ];
            }
            SyncPromise.all = function (valuesOrPromises) {
                var aggrPromise = new SyncPromise();
                var resolvedCount = 0;
                var results = [
                ];
                var resolve = function (idx, value) {
                    results[idx] = value;
                    if (++resolvedCount === valuesOrPromises.length)
                        aggrPromise.resolve(results);
                };
                valuesOrPromises.forEach(function (p, idx) {
                    if (isThenable(p)) {
                        p.then(function (v) { return resolve(idx, v); });
                    } else {
                        resolve(idx, p);
                    }
                });
                return aggrPromise;
            };
            SyncPromise.prototype.resolve = function (value) {
                // Do nothing, if already resolved.
                if (this.resolved) {
                    return;
                }
                this.value = value;
                this.resolved = true;
                // Run the queued callbacks.
                this.callbacks.forEach(function (callback) { return callback(value); });
                this.callbacks.length = 0;
                SyncPromise.prototype.then = function (callback) {
                    if (this.resolved) {
                        return callback(this.value);
                    }
                    else {
                        this.callbacks.push(callback);
                        return this;
                    }
                };
                return aggrPromise;
            };
        }());

    /**
     * @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
     */
    /**
     * @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 \`downgrading\` an Angular component.
     *
     * * @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.
     * - \ `<br /`\*
     *   (This option is only necessary when using \`\`downgradeModule\`\` to downgrade more than one
     *   Angular module.)
     *
     * - \`propagateDigest?: boolean`: Whether to perform \@link ChangeDetectorRef\#detectChanges\n     *   on the component on every
     * - \`$digest\`([https://docs.angularjs.org/api/ng/type/$RootScope.Scope#$digest]]).
     *   Set to `false`.
     * - \`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

* /\n* function downgradeComponent(info) {\n  var directiveFactory = function ($compile, $injector, $parse) {\n    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run inside the Angular zone (except if explicitly escaped, in which case we shouldn't force it back in).\n    var isNgUpgradeLite = getUpgradeAppType($injector) === 3 /* Lite */;\n    var wrapCall = isNgUpgradeLite ? function (cb) { return cb; } : function (cb) { return function () { return cb(); } };\n    \n    var ngZone;\n    // When downgrading multiple modules, special handling is needed wrt injectors.\n    var hasMultipleDowngradedModules = isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n    \n    return {\n      \n      terminal: true,\n      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n      link: function (scope, element, attrs, required) {\n        // We might have to compile the contents asynchronously, because this might have happened because Angular templates have been compiled.\n        \n        var parentInjector = required[0];\n        var moduleInjector = undefined;\n        var ranAsync = false;\n
        if (!parentInjector || hasMultipleDowngradedModules) {\n          \n          var lazyModuleRefKey, attemptedAction;
          var lazyModuleRef = $injector.get(lazyModuleRefKey);\n
          var attemptedAction = "instantiating component '" + getTypeName(info.component) + "'";\n          validateInjectionKey($injector, downgradedModule, attemptedAction);\n          \n          var downgradedModule = info.downgradedModule || '';\n          var lazyModuleRefKey = \\
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specific dependencies.

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https://angular.io/license

---

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

---

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

---

* library for hybrid upgrade apps that support AOT compilation

---

* This helper function returns a factory function that provides access to the

---

* @usageNotes

---

* ### Examples

---

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

---

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

---

* defined

---

* that we have included this in our upgrade app `NgModule` * that will be part of the upgrade application. For example, let's assume we have

---

* that are supported by AOT compilation.

---

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

---

* on an AngularJS module.

---

* upgrade/static/ts/full/module.ts region="1ng2-heroes-service"");

---

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

---

* downgraded service via the name we gave when

---

* Inside an AngularJS factory function for the service

---

* between `NgModule` and `region="downgrade-ng2-heroes-service"`.

---

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

---

* defined

---

* that we have included this in our upgrade app `NgModule` * that will be part of the upgrade application. For example, let's assume we have

---

* that are supported by AOT compilation.

---

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

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* downgraded service via the name we gave when

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* Inside an AngularJS factory function for the service

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* between `NgModule` and `region="downgrade-ng2-heroes-service"`.

---

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* defined

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* that we have included this in our upgrade app `NgModule` * that will be part of the upgrade application. For example, let's assume we have

---

* that are supported by AOT compilation.

---

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

---

* on an AngularJS module.

---

* upgrade/static/ts/full/module.ts region="1ng2-heroes-service"");

---

* Inside an AngularJS component's controller we can get hold of the
```
UpgradeHelper.prototype.buildController = function (controllerType, $scope) {
    // 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.

    var locals = { '$scope': $scope, '$element': this.$element, ...

    var controller = this.SController(controllerType, locals, null, this.directive.controllerAs);

    this.SElement.data(controllerKey(this.directive.name), controller);
    return controller;
}

UpgradeHelper.prototype.compileTemplate = function (template) {
    if (template === undefined) {
        template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);
    }
    return this.compileHtml(template);
}
UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {
    if (controllerInstance && isFunction(controllerInstance.$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
    element.cleanData([this.element]);
}

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
        // `$template` is empty. Since the transcluded content comes from Angular, not AngularJS,
        // there will be no transclusion scope here.
        // Provide a dummy
        // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
        scope = scope || { $destroy: function () { return undefined; } };
        return cloneAttachFn($template, scope);
    };

    $template = contentChildNodes;
    if (transclude) {
        var slots_1 = Object.create(null);
        if (typeof transclude === 'object') {
            $template = [
                var slots_1 = Object.create(null);
            ];
            var slotMap_1 = Object.create(null);
            var filledSlots_1 = Object.create(null);

            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.

            });
            Object.keys(filledSlots_1).forEach(function (slotName) {
                if (filledSlots_1[slotName] == true) {
                    slots_1[slotName] = slots_1[slotName] || [];
                    slots_1[slotName].push(node);
                }
            });
            Object.keys(slots_1).filter(function (slotName) { return slots_1[slotName];
                var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];
                if (slotName) {
                    var selector = transclude[slotName];
                    var optional = selector.charAt(0) == '?';
                    selector = optional ? selector.substring(1) : selector;
                    slots_1[slotName] = null; // `null`
                }
                else {
                    $template.push(node);
                }
            });
        }
        // Add the matching elements into their slot.
        contentChildNodes.forEach(function (node) {
            var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];
            if (slotName) {
                var selector = transclude[slotName];
                var optional = selector.charAt(0) == '?';
                selector = optional ? selector.substring(1) : selector;
                slots_1[slotName] = slots_1[slotName] || [];
                slots_1[slotName].push(node);
            } else {
                $template.push(node);
            }
        });
        Object.keys(filledSlots_1).forEach(function (slotName) {
            if (filledSlots_1[slotName]) {
                throw new Error(`Required transclusion slot \"${slotName}\" on directive: \"${_this.name}\"`);
            }
        });
        Object.keys(slots_1).filter(function (slotName) { return slots_1[slotName];
            var nodes = slots_1[slotName];
            var $template = 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.
    }
```
```
issue, we add a\n
// [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_nonjoiner)\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
$template.forEach(function (node) {\n
if
(node.nodeType === Node.TEXT_NODE && !node.nodeValue) {\n
node.nodeValue = '\\u200C';\n
}\n
});\n
}\n
return attachChildrenFn;\n
};\n
UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) {\n
var
directiveRequire = this.getDirectiveRequire();\n
var requiredControllers =
this.resolveRequire(directiveRequire);\n
if (controllerInstance && this.directive.bindToController &&
isMap(directiveRequire)) {\n
var requiredControllersMap_1 = requiredControllers;\n
Object.keys(requiredControllersMap_1).forEach(function (key) {\n
controllerInstance[key] =
requiredControllersMap_1[key];\n
});\n
}\n
return requiredControllers;\n
};\n
UpgradeHelper.prototype.compileHtml = function (html) {\n
this.element.innerHTML = html;\n
return
this.$compile(this.element.childNodes);\n
};\n
UpgradeHelper.prototype.extractChildNodes = function ()
{\n
var childNodes = [];\n
var childNode;\n
while (childNode = this.element.firstChild) {\n
this.element.removeChild(childNode);\n
childNodes.push(childNode);\n
}\n
return
childNodes;\n
};\n
UpgradeHelper.prototype.getDirectiveRequire = function () {\n
var require =
this.directive.require || (this.directive.controller && this.directive.name);\n
if (isMap(require)) {\n
Object.keys(require).forEach(function (key) {\n
var value = require[key];\n
var match =
value.match(REQUIRE_PREFIX_RE);\n
var name = value.substring(match[0].length);\n
if
(!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n
return
require;\n
};\n
UpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {\n
var _this = this;\n
if (!require) {\n
return null;\n
}\n
else if (Array.isArray(require)) {\n
return require.map(function (req) { return _this.resolveRequire(req); });\n
}\n
else if (typeof
require === 'object') {\n
var value_1 = {};\n
Object.keys(require).forEach(function (key) { return
value_1[key] = _this.resolveRequire(require[key]); });\n
return value_1;\n
}\n
else if (typeof
require === 'string') {\n
var match = require.match(REQUIRE_PREFIX_RE);\n
var inheritType
= match[1] || match[3];\n
var name_1 = require.substring(match[0].length);\n
var isOptional =
!!match[2];\n
var searchParents = !!inheritType;\n
var startOnParent = inheritType === '^^';\n
var ctrlKey = controllerKey(name_1);\n
var elem = startOnParent ? this.$element.parent() :
this.$element;\n
var value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);\n
if (!value && !isOptional) {\n
throw new Error(\"Unable to find required '\" + require + \"' in upgraded
directive '\" + this.name + \"'.\");\n
}\n
return value;\n
}\n
else {\n
throw
new Error(\"Unrecognized 'require' syntax on upgraded directive '\" + this.name + \"': \" + require);\n
}\n
};\n
return UpgradeHelper;\n }());\n function getOrCall(property) {\n
var args = [];\n
for (var _i =
1; _i < arguments.length; _i++) {\n
args[_i - 1] = arguments[_i];\n
}\n
return isFunction(property) ?
property.apply(void 0, __spread(args)) : property;\n }\n // NOTE: Only works for `typeof T !== 'object'`.\n
function isMap(value) {\n
return value && !Array.isArray(value) && typeof value === 'object';\n }\n
function notSupported(name, feature) {\n
throw new Error(\"Upgraded directive '\" + name + \"' contains
unsupported feature: '\" + feature + \"'.\");\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 CAMEL_CASE = /([A-Z])/g;\n var INITIAL_VALUE$1
= {\n
__UNINITIALIZED__: true\n };\n var NOT_SUPPORTED = 'NOT_SUPPORTED';\n var
UpgradeNg1ComponentAdapterBuilder = /** @class */ (function () {\n
function
UpgradeNg1ComponentAdapterBuilder(name) {\n
this.name = name;\n
this.inputs = [];\n
this.inputsRename = [];\n
this.outputs = [];\n
this.outputsRename = [];\n
this.propertyOutputs =
[];\n
this.checkProperties = [];\n
this.propertyMap = {};\n
this.directive = null;\n
var
selector = name.replace(CAMEL_CASE, function (all, next) { return '-' + next.toLowerCase(); });\n
var self

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var directive = { selector: selector, inputs: this.inputsRename, outputs: this.outputsRename };

var MyClass = /** @class */ (function (_super) {
    function MyClass(scope, injector, elementRef) {
        var _this = this;
        _this = _super.call(this, new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) || this;
        return _this;
    }

    return MyClass;
}(UpgradeNg1ComponentAdapter));

UpgradeNg1ComponentAdapterBuilder.prototype.extractBindings = function () {
    var _this = this;

    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:
                    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);
}

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.parentElement = null;
        this.directive = helper.directive;
    }

    UpgradeNg1ComponentAdapter.prototype.buildToController = function () {
        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') {
            var propName = propName || 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:
                    throw new Error("Unexpected mapping '" + bindingType + "' in '" + json + "' in '" + _this.name + "' directive.");
            }
        }
    }

    return UpgradeNg1ComponentAdapter;
}());

var UpgradeNg1ComponentAdapter = new UpgradeNg1ComponentAdapter.Builder(UpgradeNg1ComponentAdapterBuilder);
var controllerType = this.directive.controller;
var bindToController = this.directive.bindToController;
if (controllerType && !bindToController) {
    this.controllerInstance = this.helper.buildController(controllerType, 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 template
    var attachChildNodes = this.helper.prepareTransclusion();
    var linkFn = this.helper.compileTemplate(this.template);
    // Instantiate controller (if not already done so)
    var controllerType = this.directive.controller;
    var bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
        this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    }
    // Require other controllers
    var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
    // Hook: $onInit
    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
        this.controllerInstance.$onInit();
    }
    // Linking
    var preLink = typeof link == 'object' && link.pre;
    var postLink = typeof link == 'object' ? link.post : link;
    var attrs = NOT_SUPPORTED;
    var transcludeFn = NOT_SUPPORTED;
    if (preLink) {
        preLink(this.componentScope, this.$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.$onChanges(ng1Changes);
    }
}
UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {
    var _this = this;
    var destinationObj = this.destinationObj;
    var lastValues = this.checkLastValues;
    var checkProperties = this.checkProperties;
    var propOuts = this.propOuts;
    checkProperties.forEach(function (propName, i) {
        var value = destinationObj[propName];
        var last = lastValues[i];
        if (strictEquals(last, value)) {
            var eventEmitter = _this[propOuts[i]];
            eventEmitter.emit(lastValues[i] = value);
        }
    });
    if (isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }
}
UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
};
UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {
    var destinationObj = this.destinationObj;
    var propertyMap = this.propertyMap;
    this[propertyMap[name]] = value;
    return UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
        this.helper.onDestroy(this.componentScope, this.controllerInstance);
    }();
};
3. Bootstrapping of a hybrid Angular application which 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.
   * 3. Angular components always execute inside Angular framework codebase regardless of
      * where they are instantiated.
   * 4. Angular directives 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 AngularJS directive, which bootstraps the Angular component in that location.
   * 7. Whenever a 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 booted 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**`.

### Example
```javascript
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]="title">(transclude)</ng1-hello>',
    compile: function(tElement, tAttrs) {
      tElement[0].innerHTML = this.idPrefix + 'ng2-comp';
    },
    controller: function($scope) {
      this.idPrefix = adapter.bootstrap(document.body,
      ['myExample']).ready(function() {
        expect(document.body.textContent).toEqual('ng2-Hello World!');</ng2-comp>
      })
    }
  };}
});
```

@publicApi
```
`
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 }}!">`
  - Event: `<comp (close)="doSomething()"/>
  - ng-model: `<comp ng-model="\{name\}"/>
  - Content projection: yes

- **Supported Features:**
  - Bindings:
    - Attribute: `<comp name="World">`
    - Interpolation: `<comp greeting="Hello {{ name }}!">`
    - Expression: `<comp close="doSomething()"/>
    - ng-model: `<comp ng-model="\{name\}"/>

- **Transclusion:** yes
  - Only some of the features of
    - [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are supported:
      - `compile`: not supported because the host element is owned by Angular, which does not allow modifying DOM structure during compilation.
      - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not supported.)
      - `controllerAs`: supported.
      - `bindToController`:
      - `link`: supported. (NOTE: only pre-link function is supported.)
      - `name`:
      - `priority`: ignored.
      - `replace`: not supported.
      - `require`: supported.
      - `restrict`: must be set to 'E'.
      - `scope`:
      - `template`:
      - `templateUrl`:
      - `terminal`: ignored.
      - `transclude`:

- **Example:**

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);
module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>'
  };
});
module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));
module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: 'greet template: <greet salutation="Hello {{ name }}!">text</greet>'
  };
});
```

### Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);
module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: 'greet template: <greet salutation="Hello {{ name }}!">text</greet>'
  };
});
```
(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
*\n
* it(\"says hello\", (done) => {\n
* upgradeAdapterRef.ready(() => {\n
* const element =
$compile(\"<my-component></my-component>\")($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
UpgradeAdapter.prototype.registerForNg1Tests = function (modules) {\n
var _this = this;\n
var
windowNgMock = window['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
var upgrade = new UpgradeAdapterRef();\n
this.ng2BootstrapDeferred.promise.then(function (ng1Injector) { upgrade._bootstrapDone(_this.moduleRef,
ng1Injector); }, onError);\n
return upgrade;\n
};\n
/**\n
* Bootstrap a hybrid AngularJS /
Angular application.\n
*\n
* This `bootstrap` method is a direct replacement (takes same arguments) for
AngularJS\n
* [`bootstrap`](https://docs.angularjs.org/api/ng/function/angular.bootstrap) method. Unlike\n
* AngularJS, this bootstrap is asynchronous.\n
*\n
* @usageNotes\n
* ### Example\n
*\n
*
```\n
* const adapter = new UpgradeAdapter(MyNg2Module);\n
* const module =
angular.module('myExample', []);\n
* module.directive('ng2', adapter.downgradeNg2Component(Ng2));\n
*\n
* module.directive('ng1', function() {\n
* return {\n
*
scope: { title: '=' },\n
*
template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'\n
* };\n
* });\n
*\n
*\n
*
@Component({\n
* selector: 'ng2',\n
* inputs: ['name'],\n
* template: 'ng2[<ng1
[title]=\"name\">transclude</ng1>](<ng-content></ng-content>)'\n
* })\n
* class Ng2 {\n
* }\n
*\n
* @NgModule({\n
* declarations: [Ng2, adapter.upgradeNg1Component('ng1')],\n
* imports:
[BrowserModule]\n
* })\n
* class MyNg2Module {}\n
*\n
* document.body.innerHTML =
'<ng2 name=\"World\">project</ng2>';\n
*\n
* adapter.bootstrap(document.body,
['myExample']).ready(function() {\n
* expect(document.body.textContent).toEqual(\n
*
\"ng2[ng1[Hello World!](transclude)](project)\");\n
* });\n
* ```\n
*/\n
UpgradeAdapter.prototype.bootstrap = function (element$1, modules, config) {\n
var _this = this;\n
this.declareNg1Module(modules);\n
var upgrade = new UpgradeAdapterRef();\n
// Make sure
resumeBootstrap() only exists if the current bootstrap is deferred\n
var windowAngular = window /** TODO
#???? */['angular'];\n
windowAngular.resumeBootstrap = undefined;\n
this.ngZone.run(function () {
bootstrap(element$1, [_this.ng1Module.name], config); });\n
var ng1BootstrapPromise = new
Promise(function (resolve) {\n
if (windowAngular.resumeBootstrap) {\n
var
originalResumeBootstrap_1 = windowAngular.resumeBootstrap;\n
windowAngular.resumeBootstrap =
function () {\n
windowAngular.resumeBootstrap = originalResumeBootstrap_1;\n
var r
= windowAngular.resumeBootstrap.apply(this, arguments);\n
resolve();\n
return r;\n
};\n
}\n
else {\n
resolve();\n
}\n
});\n
Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(function (_a) {\n
var _b =

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**Example**

```javascript
class Login { ... }
class Server { ... }

@Injectable()
class Example {
  constructor(@Inject('server') server, login: Login) {
  ...
  }
}

const module = angular.module('myExample', []);
module.service('server', Server);
module.service('login', Login);
const adapter = new UpgradeAdapter(MyNg2Module);
adapter.upgradeNg1Provider('server');
adapter.upgradeNg1Provider('login', {asToken: Login});
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {
  const example = ref.ng1Injector.get('example');
  ...
});
```

**Example**

```javascript
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']
  });
};
```

**Example**

```javascript
UpgradeAdapter.prototype.declareNg1Module = function (modules) {
  if (modules === void 0) { modules = []; }
  var delayApplyExps = []; var original$applyFn;
  var rootScopePrototype;
  var rootScope;
  var upgradeAdapter = this;
  var ng1Module = module_(this.idPrefix, modules);
  var platformRef = platformBrowserDynamic.platformBrowserDynamic();
  this.ngZone = new core.NgZone({
    enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec')
  });
  this.ng2BootstrapDeferred = new Deferred();
  ng1Module.constant(UPGRADE_APP_TYPE_KEY, 1 /* Dynamic */)
  .factory(INJECTOR_KEY, function () { return _this.moduleRef.injector.get(core.Injector); })
  .factory(LAZY_MODULE_REF, ['INJECTOR_KEY', function (injector) { return ({ injector: injector }); }])
  .constant(NG_ZONE_KEY, this.ngZone)
  .factory(COMPILER_KEY, function () { return _this.moduleRef.injector.get(core.Compiler); })
  .config(['$provide', '$injector',
    function (provide, ng1Injector) {
      provide.decorator(SROOT_SCOPE, ['ng', 'delegate'],
        function (rootScopeDelegate) {
          // Capture the root apply so that we can delay first
          call to $apply until we can bootstrap Angular and
          then we replay and restore the $apply.
          rootScopePrototype = rootScopeDelegate.constructor.prototype;
          if (rootScopePrototype.hasOwnProperty('Sapply')) {
            originalSapplyFn = rootScopePrototype.$apply;
            rootScopePrototype.$apply = function (exp) {
              return delayApplyExps.push(exp);
            }
          } else {
            throw new Error('Failed to find \$Sapply on \$SrootScope');
          }
          return rootScope = rootScopeDelegate
        });
    }]);
  });
  if (ng1Injector.has($$TESTABILITY)) {
    function (provide, ng1Injector) {
      provide.decorator($$TESTABILITY, ['ng', 'delegate'],
        function (rootScope) {
          ...
        });
    }
  }
```
function (callback) {
    originalWhenStable.call(this, function () {
        if (ng2Testability.isStable()) {
            callback.apply(this, arguments);
        } else {
            ng2Testability.whenStable(newWhenStable.bind(this, callback));
        }
    });
    testabilityDelegate.whenStable = newWhenStable;
    return testabilityDelegate;
}
]
]);

ng1Module.run(['$injector', '$rootScope', function (ng1Injector, rootScope) {
    UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector).then(function () {
        // 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.
        var ngModule = { providers: [provide: SJECTOR, useFactory: function () { return ng1Injector; }],
                        imports: [core.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.
        var 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;
            })
            .catch(function (e) { return _this.ng2BootstrapDeferred.reject(e); });
    })
        .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();
                }
            });
            rootScope.$on('$destroy', function () { subscription.unsubscribe(); });
        })
        .catch(function (e) { return _this.ng2BootstrapDeferred.reject(e); });
    return ng1Module;
}])

};

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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(function (callback) { return callback(injector); });
this.callbacks.length = 0;
return ParentInjectorPromise;
/**
 * 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
 * @class */
function UpgradeAdapterRef() {
  /* @internal */
  this._readyFn = null;
  this.ng1RootScope = null;
  this.ng1Injector = null;
  this.ng2ModuleRef = null;
  this.ng2Injector = null;

  /* @internal */
  UpgradeAdapterRef.prototype._bootstrapDone = function (ngModuleRef, ng1Injector) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ng1Injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn && this._readyFn(this);
  };

  /* @internal */
  this.ready = function (fn) {
    this._readyFn = fn;
  };

  /* @internal */
  this.dispose = function () {
    this.ng1Injector.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef.destroy();
  };

  return UpgradeAdapterRef;
}();

/**
 * @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 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 // '$inject': string[]}, which is not

/**
 * @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 default UpgradeAdapter;

/**
 * @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
 */

/**
 * 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

compatible with `$inject?: ReadonlyArray<string>` (used in latest versions).

```typescript
compatible with `$inject?: ReadonlyArray<string>` (used in
latest versions).

```
IHttpBackendService {
  (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 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;
} 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;
  $viewValue: any;
  $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;
}

function noNg(): never {
  throw new Error('Angular v1.x is not loaded!');
}

function getAngularLib(): any {
  return getAngularJSGlobal();
}

function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

function bootstrap(e, modules, config?) => angular.bootstrap(e, modules, config);

function module_(prefix, dependencies?) => angular.module(prefix, dependencies);

function element(e => angular.element(e)) as typeof angular.element;
element.cleanData = (nodes: Node[] | NodeList) => angular.element(cleanData(nodes));

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

function resumeBootstrap() => angular.resumeBootstrap();

function getTestability(e: Element) => angular.getTestability(e);

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;
  $viewValue: any;
  $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;
}

function noNg(): never {
  throw new Error('Angular v1.x is not loaded!');
}

function getAngularLib(): any {
  return angular;
}

function setAngularJSGlobal(ng: any): void {
  angular = ng;
}
constructor() {
  this.promise = new Promise((res, rej) => {
    this.resolve = res;
    this.reject = rej;
  });
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export interface LazyNgModuleRef {
  lazy?: boolean;
  promise?: Promise<NgModuleRef<[]>;
}

export interface LazyNgModuleFactory {
  createModule?: () => NgModule<[];
  promise?: Promise<NgModule<[];
}

export class UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // `ngUpgrade` app.)
  None;
  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  // `ngUpgrade`).
  Dynamic;
  // App using `@angular/upgrade/static` with `UpgradeModule`. 
  Static;
  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade-lite`).
  Lite;
}

const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  // `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`. 
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade-lite`).
  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)) {
    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`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

/**
 * @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 {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;
  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 $compile: ICompileService, private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

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

    this.element.empty!(
      () => {
        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 = childInjector.create(childComponent, projectableNodes, this.element[0]!
      );
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef!);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
  }

  downgradable() {
    // 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.
    if (testability) {
      return true;
    }
  }
}
```
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);
            prevValue = currValue;
          }
        };
      })(input.prop);
      attrs.$observe(input.attr, observeFn);
    }
  }

 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);
            prevValue = currValue;
          }
        };
      })(input.prop);
      attrs.$observe(input.attr, observeFn);
    }
  }

  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);
              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 `$observe()` callback.
    let unwatch: Function|null = null;
    unwatch = function() {
      this.componentScope.$watch(() => this.component.$watch();
    };

    // 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 = null;
      unwatch = null;
      const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
      appRef.attachView(this.componentRef.hostView);
      this.component.$watch();
    }

    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)})])`
      // 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);
      }
    }
  }

  subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const expr = this.Sparse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as
```
EventEmitter<any>:  
  @setter
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter!
        (this.scope, v) : (v: any) => getter(this.scope, {'$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.componentFactory.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
groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[]
   */
  export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [];
    let wildcardNgContentIndex: number;

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

    return projectableNodes;
  }

  function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex: number = -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;
  }

  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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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.
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 * 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';

/**
 * @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
 * Component. It needs to be made available in AngularJS templates.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you need to register a component called `ng2Heroes` that needs to be instantiated:

 * ```
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes"
 * ```
 *
 * We must create an AngularJS directive ([directive](https://docs.angularjs.org/api/directive)) so that it can be used by AngularJS.

 * ```
 * @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.
 *   (Default: true)
 *   (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.)
 * - `propagateDigest?: boolean`: Whether to perform [ChangeDetectorRef#detectChanges](https://docs.angularjs.org/api/ng/type/\$rootScope.Scope#$digest) on the component on every change. (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;
  /** @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 =...
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}${downgradedModule}`;
  const attemptedAction = `instantiating component: '${TypeInfo(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.)

// Basically three cases:
// - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded module 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`.

// 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 there is a parent component that belongs to a different `NgModule`, use the module injector for module-specific dependencies.
// If this is a "top-level" Angular component or the parent component may belong to a different `NgModule`, use the module injector to retrieve `ComponentFactoryResolver` from either one will return the same instance.
const finalModuleInjector = moduleInjector || parentInjector !;

const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  const componentFactoryResolver: ComponentFactoryResolver =
    moduleInjector.get(ComponentFactoryResolver);
  const componentFactory = ComponentFactory<any> =
    componentFactoryResolver.resolveComponentFactory(info.component) !;

  if (!componentFactory) {
    throw new Error(`Expecting ComponentFactory for: ${TypeInfo(info.component)}`);
  }

  const injectorPromise = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(
    element, attrs, scope, ngModel, injector, Scompile, $parse,
    componentFactory, wrapCallback);

  const projectableNodes = facade.compileContents();
  facade.createComponent(projectableNodes);

  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

  facade.registerCleanup();

  injectorPromise.resolve(facade.getInjector());
  if (ranAsync) {
    scope.$evalAsync(() => {});
  }
};

const injectorPromise = new ParentInjectorPromise(element);
const facade = new DowngradeComponentAdapter(
  element, attrs, scope, ngModel, injector, Scompile, $parse,
  componentFactory, wrapCallback);

const projectableNodes = facade.compileContents();

facade.createComponent(projectableNodes);

facade.setupOutputs();

facade.registerCleanup();

injectorPromise.resolve(facade.getInjector());
if (ranAsync) {
  if (isNgUpgradeLite) doDowngrade : (pInjector: Injector, mInjector: Injector) => {
    scope.$evalAsync(() => {});
  }
}
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.
 * @publicApi
 * @export
 * @name VERSION
 * @license
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 * 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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 * 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 it://
// then inject and release the reference to it://

let tempInjectorRef: IInjectorService|null = null;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef)
  { throw new Error('Trying to get the AngularJS injector before it being set.');
  }

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks

  return injector;
}

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:
  // > 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;

/**
 * @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.

 * @param {string} name
 * @param {string} templateUrl
 * @param {string} ngModuleId
 * @param {string} ngModuleName
 * @param {string} ngModuleScope
 * @param {string} ngModuleEntryModule
 * @param {string} ngModuleEntryComponent
 * @param {string} ngModuleEntryComponentId

 * @template T
 * @param {T} token

 * @returns {any}

 * @instance

 * @type {T}

 * @example

 * module('app', ['@angular/core', 'app'],

 *     function (angularModule) {

 *         // Set the links to the AngularJS component
 *         angularModule

 *             // ... other configurations ...

 *             .component('myApp', {templateUrl: 'my-app.component.html'});

 *     });

 *     // Use the module

 *     angularModule

 *         .bootstrap('app', ['$rootScope', 'myApp']);

 */

export function downgradeModule(name = 'default', templateUrl = 'default', ngModuleId = 'default', ngModuleName = 'default', ngModuleScope = 'default', ngModuleEntryModule = 'default', ngModuleEntryComponent = 'default', ngModuleEntryComponentId = 'default', token = 'default') {

  return downgradeModule(name, templateUrl, ngModuleId, ngModuleName, ngModuleScope, ngModuleEntryModule, ngModuleEntryComponent, ngModuleEntryComponentId, token);

  const module = angularModule

  .module(name, ['@angular/core', name],

  function (angularModule) {

    // Set the links to the AngularJS component
    angularModule

    // ... other configurations ...

    .component('myApp', {templateUrl: 'my-app.component.html'});

  });

  // Use the module

  angularModule

  .bootstrap('app', ['$rootScope', 'myApp']);

  // The Angular module will be bootstrapped once (when requested for the first time) and the same

NgModule`: 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`. 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`. If your application uses a downgraded component, this may result in more change detection runs than 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.

### 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 Angular zone.
2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `$digest()` on changes 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, 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.

### 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 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`).

### Usage Notes

- You can manually trigger a change detection run in AngularJS using `[scope.$apply(...)]` or `[$rootScope.$digest()]`.

- You can manually trigger a change detection run in Angular using `{@link NgZone#run NgZone.run(...)}`.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

---

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const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ? moduleFactoryOrBootstrapFn : function() { (extraProviders: StaticProvider[]) =>
  platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
}

// 
// Create an ng1 module to bootstrap
// angularModule(lazyModuleName, [])

'ConnorInjectorKey', identity)\n  .factory(lazyInjectorKey, (injector) => {
    if (!injector) {
      throw new Error('Trying to get the Angular injector before bootstrapping the corresponding ' +
        'Angular module.');
    }
    return injector;
  })\n  .factory(LAZY_MODULE_REF, (lazyModuleRefKey, identity) => {
    return lazyModuleName;
  })\n
$provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(injector) + 1);

$provide.config(($injector: IInjectorService, $provide: IProvideService) => {
  $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
});

$provide.constant($INJECTOR_KEY, Injector);
v1.6+
$template.forEach(node => {
  if (node.nodeType === Node.TEXT_NODE &
  & !node.nodeValue)
    node.nodeValue = '\u200C';
});

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 {
  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] = name;
      }
    });
  }

  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 elem = searchParents ? this.$element.inheritedData(ctrlKey) : this.$element.data(ctrlKey);
    const value = !value ? 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}':
    ${require}`);
  }
}

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

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

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

import {DoCheck, ElementRef, EventEmitter, IControllerInstance, UpgradeHelper} from './upgrade_helper';
import {IBindingDestination, IComponent, IControllerInstance, UpgradeHelper} from './upgrade_helper';

class Bindings {
  twoWayBoundProperties: string[] = [];
  twoWayBoundLastValues: any[] = [];

  expressionBoundProperties: string[] = [];

  propertyToOutputMap: { [propName: string]: string } = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used by
 * Angular. This is useful when creating hybrid applications that
 * support AOT compilation. This class is defined in the
 * `angular/app` package, and is used by the `UpgradeComponent`
 * class to wrap AngularJS components that need to be "upgraded".
 * Let's assume that you have an AngularJS component called
 * `ng1Hero` that needs to be made available in
 * AngularJS. To use this component in Angular, you can create an
 * `UpgradeComponent` class that extends the
 * `UpgradeComponent` class and wraps the AngularJS component:
 * ```javascript
 * import {UpgradeComponent} from '@angular/core';
 * import {UpgradeHelpers} from '@angular/upgrade';
 * import {angular} from '@angular/directives';
 * import {UpgradeComponent} from '@angular/upgrade';
 * 
 * class Ng1HeroUpgradeComponent extends UpgradeComponent {
 *   constructor(private element: ElementRef, private upgrade: UpgradeHelpers) {
 *     super(element, upgrade);
 *   }
 * 
 *   @Input()
 *   @upgradeInput('ng1Hero', ['name', 'Heroes'])
 *   hero: string;
 * 
 *   @Output()
 *   @upgradeOutput('ng1Hero', ['name', 'Heroes'])
 *   heroOutput: EventEmitter<string>;
 * 
 *   ngOnInit() {
 *     this.heroOutput.emit(this.hero);
 *   }
 * }
 * ```
 */

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Angular templates:

```typescript
Angular templates.
```
Open Source Used In MSX SD-Branch Service Pack 3.9.0

```typescript
{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 [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 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 it can be used in an Angular template. See `UpgradeComponent`.
 * 2. Creation of an AngularJS directive that wraps and exposes an Angular component so 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 Angular context. See `UpgradeModule#examples`.
 *
 * 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.
 * 3. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated.
 * 4. 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 AngularJS component at its location in the DOM. See `UpgradeComponent`.
 * 6. 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`.
 * 7. 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.
 * 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 * 9. 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
 * and use camelCase.
 * 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 `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.
 * It also contains properties to access the `UpgradeModule#injector root injector`, the DOM for the hybrid upgrade app.
 * It contains properties to access the `UpgradeModule#injector root injector`, the DOM for the hybrid upgrade app.
 * `UpgradeModule#bootstrap` method.
 */
```
Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`. Let's say you have an AngularJS service. Then you should define an Angular provider to be included in your `NgModule`'s `providers` array.

```typescript
@NgModule({
  providers: [angular1Providers]
})
export class UpgradeModule {
  /**
   * The AngularJS `Injector` for the upgrade application.
   */

  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
   * @param element the element on which to bootstrap the AngularJS application
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   */
  bootstrap(
      element: Element, modules: string[] = [],
      config?: any /*angular.IAngularBootstrapConfig*/) {
    const INIT_MODULE_NAME = UPGRADE_MODULE_NAME + '.init';
    const lazyModuleRef = lazyModuleRefInit;
    const originalWhenStable: Function = testabilityDelegate.whenStable;
    // Cannot use arrow function below because we need the context
    const newWhenStable = function(callback: Function) {
      originalWhenStable.call(testabilityDelegate, function() {
        if (ng2Testability.isStable()) {
          callback();
        } else {
          ng2Testability.whenStable(newWhenStable.bind(testabilityDelegate, callback));
        }
      });
    }
  }
}
```

The Angular `Injector` for the upgrade application. The bootstrap zone for the upgrade application.

```typescript
// 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
// same vm turn.
setTimeout(() => {
  this.ngZone.run(() => fn(...args));
}, delay, count, invokeApply, ...pass);)
```

### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the recipe:

1. Define an Angular provider to be included in your `NgModule`'s `providers` array.
2. Call `bootstrap` on your `NgModule`.
3. Use the `Injector` from your `NgModule` to create an instance of your AngularJS service.

```typescript
angularModule(INIT_MODULE_NAME, [angular1Module])
```

Here is an example of how to upgrade an AngularJS service:

```typescript
import { Injectable } from '@angular/core';

@Injectable()
export class MyAngularJSService {
  constructor(private injector: Injector) {
    // Use the AngularJS service here.
  }
}
```

After upgrading, you can use the `Injector` to inject your AngularJS service into other components or services:

```typescript
import { Injectable } from '@angular/core';

@Injectable()
export class MyAppComponent {
  constructor(private injector: Injector) {
    this.injector.get(MyAngularJSService); // Get the upgraded AngularJS service.
  }
}
```
the DOM, so that it can be \"required\" angularElement(element).data

!(controllerKey(INJECTOR_KEY), this.injector));

                // Wire up the ng1 rootScope to run a digest cycle whenever the zone settles
                // We need to do this in the next tick so that we don't prevent the bootup
                // stabilizing
                setTimeout(() => {
                    const $rootScope = $injector.get('$rootScope');
                    const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
                        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.$$phase ? $rootScope.$$phase
                    });
                }, 0);
            });

    const upgradeModule = angularModule(UPGRADE_MODULE_NAME,
        [INIT_MODULE_NAME].concat(modules));

    // 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(() => {
        // 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));
            };
        }
    });

    // 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));
        };
    }

    // This file only re-exports
    // items to appear in the public api. Keep it that way.
    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';
    export {downgradeModule} from './src/downgrade_module';
    export {UpgradeComponent} from
        './src/upgrade_component';
    export {UpgradeModule} from './src/upgrade_module';

    // This file is not used to build this module. It is only used during
    // editing\n// by the TypeScript language service and during build for verification. `ngc`\n// replaces this file with
    // production index.ts when it rewrites private symbol\n// names.\n// Generated bundle index. Do not edit.\n// from './public_api';\n
    // angular_packages_upgrade_static_e_compileFactory as
    // angular_packages_upgrade_static_c_injectorFactory as
    // angular_packages_upgrade Static_d_rootScopeFactory as
    // angular_packages_upgrade Static_b
CAAC,IAAI,CAAC,AAAE,MAAM,CAAC,CAAC,AAAE,CAAC,CAAC;YAG7E,IAAIaAAa,CAAC.eAAe,EAA
EgBACjC,IAAM,yBAAuB,GAeaa,AAa,CAAC.eAAe,CAAC:gBACjE,IAAM,QAAM,GAAG,IAAL,CAAC.MAA
M,CAAC:gBAC3B,aAAa,CAAC,eAAe,GAAG:oBAAA,iBAl/B:oBAHC,IAAI,IAAI,GAAG,SAAS,CAAC:oBACr
B,aAAa,CAAC.eAAe,GAAG,yBAuB,CAAC:oBACxD,OOAO,QAAM,CAAC,GAAG,CAAC,cAAM,OAaA,aAA
Aa,CAAC.eAAe,CAAC,KAAC,CAAC,KAAC,IAAI,CAAC,GAAG,CAAC,CAAC;iBAC1E,CAAC:ACH;S
ACF:QAaJU,aAAa:YADzBE,aAAQ,CAAC,IAAC,SAAS,EAEE,CAAC,iBAAIB,CAAC,EAAC,CAAC;6CAW3B
lB,aAAQ:gBAEHM,WAAM;WAZd,aAAa,CAqJzB;QAAD,oBAAC;KAaJd;j:ICjJ:mm;AQA,IAAA:iFAAF;j
ICj BjF;;;OAMG:;ICNH:;OAEG;*****************************************************************************
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INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OR CONDITIONS OF TITLE, FITNESS FOR A PARTICULAR PURPOSE,\nMERCHANTABILITY OR NON-INFRINGEMENT.\nSee the Apache Version 2.0 License for specific language governing permissions and limitations under the License.\n
global Reflect, Promise */\nvar extendStatics = function(d, b) { \n  extendStatics = Object.setPrototypeOf ||
    ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
    function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
  return extendStatics(d, b);
};

export function __extends(d, b) {
  extendStatics(d, b);
  function __() { this.constructor = d; }
  d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
}

export var __assign = function() {
    __assign = Object.assign || function __assign(t) {
        for (var s, i = 1, n = arguments.length; i < n; i++) {
            s = arguments[i];
            for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];
        }
        return t;
    }
    return __assign.apply(this, arguments);
}

export function __rest(s, e) {
    var t = {};
    for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0)
        t[p] = s[p];
    if (s != null && typeof Object.getOwnPropertySymbols === "function")
        for (var i = 0, p = Object.getOwnPropertySymbols(s); i < p.length; i++)
            if (e.indexOf(p[i]) < 0 && Object.prototype.propertyIsEnumerable.call(s, p[i]))
                t[p[i]] = s[p[i]];
    return t;
}

export function __decorate(decorators, target, key, desc) {
    var c = arguments.length, r = c < 3 ? target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;
    if (typeof Reflect === "object" && typeof Reflect.decorate === "function") r = Reflect.decorate(decorators, target, key, desc);
    else if (c < 3) d = desc, r = (c = 2) ? Object.defineProperty(target, key, desc) : target; else if (c < 6) if (typeof Reflect === "object" &

IAugmentedJQuery;
}
export interface ICloneAttachFunction {
  (clonedElement: IAugmentedJQuery, scope: IScope): any;
}
export type IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;
  data?: (name: string, value?: any) => any;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IAugmentedJQuery;
  injector?: () => IAugmentedJQuery;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
  remove?: () => void;
  removeData?: () => void;
  on?: (name: string, fn: () => void) => void;
  trigger?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => void;
  injector?: () => IInjectorService;
  remove?: () => void;
};
export interface IProvider {
  $get: IInjectable;
  $provide: IProvideService;
  $injector: IInjectorService;
};
export interface IProvideService {
  provider(token: Ng1Token, provider: IProvider): IProvider;
  factory(token: Ng1Token, factory: IInjectable): IProvider;
  service(token: Ng1Token, type: IInjectable): IProvider;
  value(token: Ng1Token, value: any): IProvider;
  constant(token: Ng1Token, value: any): void;
};
export interface IHttpBackendService {
  (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<string>;
  totalPendingRequests: number;
};
export interface IController = string | IInjectable;
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, apply?: boolean): 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;
  $isDefault(value: any): boolean;
  $isDirty(): boolean;
  $isPristine(): boolean;
};
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<Ng1Injectable>, strictDi?: boolean): boolean;
    version: (major: number): string;
    resumeBootstrap: () => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean): IInjectorService;
  service: (token: Ng1Token, type: IInjectable): IProvider;
  value: (token: Ng1Token, value: any): IProvider;
  constant: (token: Ng1Token, value: any): void;
  factory: (token: Ng1Token, factory: IInjectable): IProvider;
};

try {
  if (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 `getAngularLib` 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;
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
};

/**
 * Sets AngularJS to use the current global.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(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);

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

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

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

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

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

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

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 * 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, $INTERVAL, 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. In
 * this case it is 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
 * helper.
 *
 * 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
 * helper.
 */

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sets up global variables to hold the shared Angular and AngularJS injectors.\n *\n * * Only call this helper once per
spec.\n * * Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.\n *\n *
</div>\n *\n * Here is the example application and its unit tests that use `createAngularTestingModule`\n * and
`createAngularJSTestingModule`.\n *\n * <code-tabs>\n * <code-pane header=\"module.spec.ts\"
path=\"upgrade/static/ts/full/module.spec.ts\"></code-pane>\n * <code-pane header=\"module.ts\"
path=\"upgrade/static/ts/full/module.ts\"></code-pane>\n * </code-tabs>\n *\n *\n * @param angularJSModules a
collection of the names of AngularJS modules to include in the\n * configuration.\n * @param [strictDi] whether the
AngularJS injector should have `strictDI` enabled.\n *\n * @publicApi\n */\nexport function
createAngularTestingModule(\n angularJSModules: string[], strictDi?: boolean): Type<any> {\n
angular.module_('$$angularJSTestingModule', angularJSModules)\n
.constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static)\n
.factory(INJECTOR_KEY, () => injector);\n $injector = angular.injector(['ng',
'$$angularJSTestingModule'], strictDi);\n return AngularTestingModule;\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 {Injector} from '@angular/core';\nimport
{TestBed} from '@angular/core/testing';\n\nimport * as ng from '../../../src/common/src/angular1';\nimport
{$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';\nimport
{UpgradeAppType} from '../../../src/common/src/util';\n\n\n/**\n * A helper function to use when unit testing
AngularJS services that depend upon downgraded Angular\n * services.\n *\n * This function returns an AngularJS
module that is configured to wire up the AngularJS and Angular\n * injectors without the need to actually bootstrap
a hybrid application.\n * This makes it simpler and faster to unit test services.\n *\n * Use the returned AngularJS
module in a call to\n *
[`angular.mocks.module`](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to\n * include this
module in the unit test injector.\n *\n * In the following code snippet, we are configuring the `$injector` with two
modules:\n * The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the\n *
`Ng2AppModule`, which is the Angular part.\n *\n * <code-example path=\"upgrade/static/ts/full/module.spec.ts\"\n
* region=\"angularjs-setup\"></code-example>\n *\n * Once this is done we can get hold of services via the
AngularJS `$injector` as normal.\n * Services that are (or have dependencies on) a downgraded Angular service,
will be instantiated as\n * needed by the Angular root `Injector`.\n *\n * In the following code snippet,
`heroesService` is a downgraded Angular service that we are\n * accessing from AngularJS.\n *\n * <code-example
path=\"upgrade/static/ts/full/module.spec.ts\"\n * region=\"angularjs-spec\"></code-example>\n *\n * <div
class=\"alert is-important\">\n *\n * This helper is for testing services not components.\n * For Component testing
you must still bootstrap a hybrid app. See `UpgradeModule` or\n * `downgradeModule` for more information.\n *\n
* </div>\n *\n * <div class=\"alert is-important\">\n *\n * The resulting configuration does not wire up AngularJS
digests to Zone hooks. It is the\n * responsibility of the test writer to call `$rootScope.$apply`, as necessary, to
trigger\n * AngularJS handlers of async events from Angular.\n *\n * </div>\n *\n * <div class=\"alert isimportant\">\n *\n * The helper sets up global variables to hold the shared Angular and AngularJS injectors.\n *\n *
* Only call this helper once per spec.\n * * Do not use `createAngularJSTestingModule` in the same spec as
`createAngularTestingModule`.\n *\n * </div>\n *\n * Here is the example application and its unit tests that use
`createAngularTestingModule`\n * and `createAngularJSTestingModule`.\n *\n * <code-tabs>\n * <code-pane
header=\"module.spec.ts\" path=\"upgrade/static/ts/full/module.spec.ts\"></code-pane>\n * <code-pane
header=\"module.ts\" path=\"upgrade/static/ts/full/module.ts\"></code-pane>\n * </code-tabs>\n *\n *\n * @param
angularModules a collection of Angular modules to include in the configuration.\n *\n * @publicApi\n */\nexport
function createAngularJSTestingModule(angularModules: any[]): string {\n return
ng.module_('$$angularJSTestingModule', [])\n
.constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static)\n
.factory(\n
INJECTOR_KEY,\n
[\n
$INJECTOR,\n
($injector: ng.IInjectorService) => {\n
TestBed.configureTestingModule({\n
imports:
angularModules,\n
providers: [{provide: $INJECTOR, useValue: $injector}]\n
});\n
return
TestBed.inject(Injector);\n
}\n
])\n
.name;\n}\n","/**\n * @license\n * Copyright Google Inc. All

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export {createAngularTestingModule} from
  './src/create_angular_testing_module';
export {createAngularJSTestingModule} from
  './src/create_angularjs_testing_module';

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

export * from './public_api';

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

export {module_ as ɵangular_packages_upgrade_static_testing_testing_a} from
  '../../src/common/src/angular1';
export {INJECTOR_KEY as ɵangular_packages_upgrade_static_testing_testing_d, UPGRADE_APP_TYPE_KEY as
  ɵangular_packages_upgrade_static_testing_testing_e} from
  '../../src/common/src/constants';
export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from
  '../../src/common/src/util';
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.map

No license file was found, but licenses were detected in source scan.
Function;\n\n$$childTail: IScope;\n$$childHead: IScope;\n$$nextSibling: IScope;\n[key: string]; any;\n$$nextSibling: IScope;\n
export interface IScope extends IRootScopeService { }\nexport interface IAngularBootstrapConfig { strictDi?: boolean;\n}

export interface IDirective {
  compile?: IDirectiveCompileFn;\n  controllerAs?: string;\n  controller?: IController;\n  controllerAs?:
  [key: string]: any;
}

export interface IComponent {
  bindings?: {
    [key: string]: string;\n  };\n  controller?: IInjectable;\n  controllerAs?: string;\n  require?: DirectiveRequireProperty;\n  template?: string|Function;\n  templateUrl?: string|Function;\n}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;\n  [key: string]: any;\n}

export interface ITranscludeFunction {
  // 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}

export interface IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;\n  data?: (name: string, value?: any) => any;\n  text?: () => string;\n  inheritedData?: (name: string, value?: any) => any;\n  contents?: () => IAugmentedJQuery;\n  append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;\n  controller?: (name: string) => any;\n  isolateScope?: () => IScope;\n  injector?: () => IInjectorService;\n  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) => IAugmentedJQuery;\n  remove?: () => void;\n  removeData?: () => void;\n}

export interface ICloneAttachFunction { (clonedElement: IAugmentedJQuery, scope: IScope): any;\n}

export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;\n  cancel(promise: Promise<any>): boolean;\n}

export interface ITestabilityService {
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null
using `@angular/upgrade/static` with `downgradeModule()` (a.k.a `ngUpgrade-lite`).

### Glue the AngularJS `NgModelController` to the component

```javascript
// TODO(issue/24571): remove !. `ComponentRef` is not a type.
const testability = this.componentRef.injector.get(Testability, null);
if (testability) {
  this.componentRef.injector.get(TestabilityRegistry)
    .registerApplication(this.componentRef.location.nativeElement, testability);
}
```

### Constructor

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

### `createComponent` Method

```javascript
createComponent(projectableNodes: Node[][]): void {
  const compiledProjectableNodes = projectableNodes;
  const linkFns = compiledProjectableNodes.map(nodes => {
    this.$compile(nodes)(this.scope, (clone: Node[]) => {
      this.compileContents().push(clone);
      this.element.append(clone);
    });
  });
  this.$$compile.nodes = linkFns.map(nodes => {
    this.$$compile(nodes);
  });
  this.$$compile.nodes.forEach(linkFn => {
    linkFn(this.$compile, (clone: Node[]) => {
      this.$$compile.nodes.pushLink(clone);
      this.$$compile.nodes.forEach(clone => {
        this.$$compileNodes.map(n => {
          this.$$compileNodes[n].createComponent(projectableNodes: Node[])
        });
      });
    });
  });
}
```

### `hookupNgModel` Method

```javascript
hookupNgModel(ngModel: INgModelController, component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}
```

### `strictEquals` Method

```javascript
strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}
```
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)) {
        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(attr => {
    if (this.updateInput(prop, prevValue, currValue)) {
      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, prevValue: any) =>
        this.updateInput(prop, prevValue, currValue))(input.prop);
    this.componentScope.$watch(expr, watchFn);
  }
}

// Invoke "$ngOnChanges()" and Change Detection (when necessary)
if (this.componentScope.$watch(this.inputChanges)) {
  this.inputChanges = {};
  (<OnChanges>this.component).ngOnChanges(this.inputChanges);
  this.viewChangeDetector.markForCheck();
  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 = null;
    unwatch = null;
    const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
  });
}

// registerCleanup()
this.wrapCallback(() => this.componentRef.destroy());

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

    const injector = this.injector;
    this.component = this.componentFactory.create(injector, [product]);
    this.componentRef = this.componentFactory.create(injector, [product]).hostElement;
    this.componentRef.setAttribute('ng-content', product);
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{LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, get TypeName, getUpgradeAppType, validateInjectionKey} from './util';

```typescript
{LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, *}

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 `\'downgrading\'` an Angular component. * 

\* @usageNotes * 

\* 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/guide/directive) that will make 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 `\'downgrading\'` 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).

\* 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

\* - `propagateDigest?: boolean`: Whether to perform [ @link ChangeDetectorRef#detectChanges change detection] on the component.

\* 

\* 

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

\* Set to `false`, * 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 *

\* function downgradeComponent(info: {

\* component: Type<any>; downgradedModule?: string; propagateDigest?: boolean; inputs?: string[]; outputs?: string[]; selectors?: string[]; }

\* ): any /* angular.IInjectable */ {

\* 

\* 

\* const directiveFactory:

\* IAnnotatedFunction = function(n $compile: ICompileService, $injector: IInjectorService, $parse: IParseService): IDirective {

\* 

\* 

\* when `UpgradeModule`, because `Sdigest()` 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 {n restrict: 'E',n terminal: true,n require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],n link: (scope: IScope, element: IElement, attr: IAtributes, 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|Tenable<Injector>undefined = required[0];

\* let moduleInjector: Injector|Tenable<Injector>undefined = undefined;

\* if (!parentInjector || hasMultipleDowngradedModules) {

\* const downgradeModule = info.downgradedModule

\* "\n
\* 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's injector as `finalModuleInjector` 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 injector is the 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.
// 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`
  componentFactoryResolver: ComponentFactoryResolver =
      moduleInjector.get(ComponentFactoryResolver);
  componentFactory: ComponentFactory<any> =
      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);

  const 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 a digest and initial input values will not be detected.
    scope.$evalAsync(() => {});
  }
}

moduleInjector.get(ComponentFactoryResolver) =
  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, $compile, $parse,
    componentFactory, wrapCallback);

const 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 a digest and initial input values will not be detected.
  scope.$evalAsync(() => {});
}

const doDowngradeFn = isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`.
  const facade = new DowngradeComponentAdapter(
      element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
      componentFactory, wrapCallback);

  const 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 a digest and initial input values will not be detected.
    scope.$evalAsync(() => {});
  }

  wrapCallback(() => doDowngrade(pInjector, mInjector))();
}

// NOTE: Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because some related tool) complains:
// `TypeError: ...SyncPromise.all is not a function` (see `SyncPromise.all([finalParentInjector, finalModuleInjector])` then([pInjector, mInjector]) => doDowngrade(pInjector, mInjector));
ranAsync = true;

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

```javascript
of closure - see #14441

```
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. `\`

```javascript
// 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;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef) {
    throw new Error('Trying to get the AngularJS injector before it being set.\n');
  }

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks
  return injector;
}

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']}
];
```

```javascript
/**
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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 locates 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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 *
 * 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, 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_KEY as INJECTOR_KEY, DOWNGRADED_MODULE_COUNT_KEY as DOWNGRADED_MODULE_COUNT_KEY, LAZY_MODULE_NAME as LAZY_MODULE_NAME, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY as UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME as UPGRADE_MODULE_NAME} from '../../src/common/const';
import {LazyModuleRef, isFunction} from '../../src/common/src/util';
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 `@downgradeComponent` downgraded component needs to be
 * instantiated. This function is called with an array of extra `@link StaticProvider Providers` 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.
 * `\`get\` \`downgradeModule\` requires either an `NgModuleFactory` or a function:
 * `\`get\`
 * `\`downgradeModule\`
 * requires either an `NgModuleFactory` or a function:
 * `\`get\`
 * `\`downgradeModule\`
 * If you pass an `NgModuleFactory`, it will be used to instantiate a module
 * using `\`platformBrowser\`s `\`create\` method. 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 `@link Injector`.
 */

export function downgradeModule(token: any, notFoundValue?: any) { return moduleUid++;

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module. You can use it to declare a dependency in your main AngularJS module.

```typescript
module.$inject = ['\$\{basic-how-to\}']

module.$on('For more details on how to use
`downgradeModule()` see
`UpgradeAppDirective\$inject\$on` for the `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\$in\$on component.

Besides their different API, there are two important internal differences between\$in\$on * `downgradeModule()` and
`UpgradeModule` that affect the behavior of hybrid applications.\$in\$on * 1. Unlike `UpgradeModule`,
`downgradeModule()` does not bootstrap the main AngularJS module\$in\$on * inside the \$on

For more details on how to use
`downgradeModule()` and 'UpgradeModule' in the same hybrid
application. Use one or the other.\$in\$on * 2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run\$in\$on

This will inevitably result in more change detection runs than necessary.\$in\$on * `downgradeModule()`,
on the other side, does not try to tie the two change detection systems\$in\$on * tightly, restricting the explicit change
detection runs only to cases where it knows it is\$in\$on * 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\$in\$on * notify each framework as needed.\$in\$on * For a more detailed discussion of the

### 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\$in\$on * inside the \$on

2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run\$in\$on

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.\$in\$on * This will inevitably result in more change detection runs than necessary.\$in\$on * `downgradeModule()`,
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change). This improves performance especially in change-detection-heavy applications, but leaves it up to the
developer to manually\$in\$on * notify each framework as needed.\$in\$on * For a more detailed discussion of the
differences and their implications, see\$in\$on * `UpgradeForPerformance\$inject\$on` for more details on how to use

You can manually trigger a change detection run in AngularJS using\$in\$on *[scope.$apply(...)](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply) or\$in\$on *

You can manually trigger a change detection run in Angular using \$in\$on * `\$rootScope.$digest()` when changes are\$in\$on * detected in the

### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application.\$in\$on * That case, each downgraded module will be bootstrapped when an
associated downgraded component\$in\$on * injectable needs to be instantiated.\$in\$on * Things to keep in mind, when
downgrading multiple modules:\$in\$on * - Each downgraded component/injectable needs to be explicitly associated
with a downgraded\$in\$on * module. See `downgradeComponent()` and `downgradeInjectable()` for more details.\$in\$on *
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### Downgrading multiple modules

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- `StaticProvider`'s, when creating the `PlatformRef` (e.g. via `platformBrowser\$in\$on`,

---

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```typescript
[lazyInjectorKey, identity]}}

.factory(lazyInjectorKey, () => {
  if (!injector) {
    throw new Error('Trying to get the Angular injector before bootstrapping the corresponding ' +
      'Angular module.');
  }
  return injector;
})

.factory(lazyModuleRefKey, identity) => {
  const result: LazyModuleRef = {
    promise: bootstrapFn(angular1Providers).then(ref => {
      injector = result.injector = new NgAdapterInjector(ref.injector);
      injector.get($INJECTOR);
    })
  };
  return result;
})

.config($INJECTOR, $PROVIDE) => {
  $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(injector) + 1);
}

function identity<T = any>(x: T): T {
  return x;
}
```
instance.
  // 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;
      if (this.compileHtml(template))
        onDestory($scope: IScope, controllerInstance?: any) {
          if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
            controllerInstance.$onDestroy();
          }
          $scope.$destroy();
          angularElement.cleanData !(controllerKey(this.directive.name !), controller);
        }
    }
  }
  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }
    $scope.$destroy();
    angularElement.cleanData !(controllerKey(this.directive.name !), controller);
  }
}

// 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/e743c2bd8555326f7955f7f1ea7248377915613fd9/src/manipulation.js#L223
https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aad70d86d4d688c82/src/jqLite.js#L306-L312

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

https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aad70d86d4d688c82/src/Angular.js#L1911-L1924

angularElement.cleanData !(controllerKey(this.directive.name !), controller);

// 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+

Stemplate.forEach(node => {
  if (node.nodeType === Node.TEXT_NODE)
    node.nodeValue = '\u200C';
});
requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};

Object.keys(requiredControllersMap).forEach(key => {
  const controllerInstance = requiredControllersMap[key];
  return requiredControllers;
}).forEach(html => {
  private compileHtml(html);

  const requiredControllers = requiredControllersMap[key];
  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;
      }
    });
  }

  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 name = require.substring(match[0].length);
    const isOptional = !!match[2];
    const searchParents = !!match[4];
    const ctrlKey = controllerKey(name);
    const elem = searchParents ? 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}'.`);
    }

    return value;
  } else {
    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}'.`);
  }
}

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

function isMap<T>(value: SingleOrListOrMap<T>): value is { [key: string]: T } {
  return value && !Array.isArray(value) && typeof value === 'object';
}

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

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

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

import { IAttributes, 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 { isMap, NOT_SUPPORTED, initial_value } from '@angular/core';
import { IAttributes, 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';

export class Bindings {
  twoWayBoundProperties: string[] = [];
  twoWayBoundLastValues: any[] = [];

  expressionBoundProperties: string[] = [];

  propertyToOutputMap: { [propName: string]: string } = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS 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 class should be used as a base class for creating Angular directives
 * that wrap AngularJS components.
 *
 * Let's assume that you have an AngularJS component called 'ng1-Hero' that needs
 * to be made available in Angular templates.
 * This is what we must create a `Directive` that will make this AngularJS component
 * available inside Angular templates.
 *
 * This is because the AOT compiler requires that this information is statically available at

* 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` * * `export` class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy * * `private helper: UpgradeHelper;` * * `private directive: IDirective;` * * `private bindings: Bindings;` * * `private pendingChanges: SimpleChanges | null;` * * `private controllerInstance!: IControllerInstance;` * * `private bindingDestination!: IBindingDestination;` * * `private $componentScope: IScope;` * * `private controllerInstance!: IControllerInstance;` * * `private bindingDestination!: IBindingDestination;` 

```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.
 * @example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"
 */
export class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {
  private helper: UpgradeHelper;

  private $injector: IInjectorService;

  private element: Element;
  private $element: IAugmentedJQuery;
  private

  private directive: IDirective;
  private bindings: Bindings;

  // We will be instantiating the controller in the
  // `ngOnInit` hook, when the
  // first `ngOnChanges` will have been already triggered. We store them
  // `SimpleChanges` and `\play them back`\" later.
  // TODO(issue/24571): remove `!:` private pendingChanges !:
  // SimpleChanges | null;` // 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 'elementRef' and 'injector' parameters should be
  // acquired from Angular by dependency injection into the base class constructor.
  // @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 = thisinitializeBindings(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 `Scope(isolateScope)?` this.$componentScope = $parentScope.$new(!!this.directive.scope);
    //QUESTION 1: Should we create an isolated scope if the scope is only true?
    // QUESTION 2: Should we make the scope accessible through `Scope(isolateScope)?` this.$componentScope = $parentScope.$new(!!this.directive.scope);

    this.$componentScope = $parentScope.$new(!this.directive.scope);`\n
    this.initializeOutputs();
  }

  ngOnInit(): void {
    // 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.$onInit();
    // 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) {`\n
```
ngDoCheck() {
  const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
  const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
  const propertyToOutputMap = this.bindings.propertyToOutputMap;
  const twoWayBoundProperties.forEach(propName, idx) => {
    const new_value = this.bindingDestination[propName];
    const old_value = twoWayBoundLastValues[idx];
    if (!looseIdentical(new_value, old_value)) {
      const outputName = propertyToOutputMap[propName];
      const eventEmitter = EventEmitter.any(outputName, 'EventEmitter.emit(new_value);
      twoWayBoundLastValues[idx] = new_value;
    }
  };

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

  private initializeBindings(directive: IDirective) {
    const bcIsObject = typeof directive.bindToController === 'object';
    if (bcIsObject && Object.keys(directive.scope).length) {
      throw new Error(`Binding definitions on scope and controller at the same time is not supported.`);
    }

    const context = bcIsObject ? 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 '@':
          case '<':
            // We don't need to do anything special. They will be defined as inputs on the upgradable 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
    bindings.twoWayBoundProperties.concat(bindings.expressionBoundProperties)
      .forEach(propName => {
        const outputName = bindings.propertyToOutputMap[propName];
        (this as any)[outputName] = new EventEmitter();
      });
  }

  private bindOutputs() {
    // Bind `&` bindings to the corresponding outputs
    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) {
    // Forward input changes to `bindingDestination`
    Object.keys(changes).forEach(propName => this.bindingDestination[propName] = changes[propName].currentValue);
  }
}

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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 {Angular1Module, setTempInjectorRef} from './angular1_providers';
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 [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 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 AngularJS directive that wraps and exposes an Angular component so
   that it can be injected into an Angular context. See
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 `downgradeInjectable`
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`
5. 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`
6. 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 `downgradeInjectable`
7. 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
   * view for that component.
8. AngularJS services

### 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.
3. AngularJS directives always execute inside the AngularJS framework codebase regardless of
   where they are instantiated.
4. 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 AngularJS component at its location
   in the DOM. See `UpgradeComponent`
6. 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 `downgradeInjectable`
7. 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
   * view for that component.
8. Angular is bootstrapped first; AngularJS is
   bootstrapped second. AngularJS always owns the
   root component of the application.
9. The new
   application is running in an Angular zone, and therefore it no longer needs calls to
   `$apply()`.
10. 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.

    It
        also contains properties to access the `UpgradeModule` into your top level AngularJS
        module onto an element in the
        DOM for the hybrid upgrade app.

    It
        also contains properties to access the

    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
          * `@example upgrade/static/ts/full/module.ts` region=`ng2-module`\n          * `@a upgrading-an-angular-1-service`\n          * `@example upgrade/static/ts/full/module.ts region=bootstrap-ng2`\n          * `@example upgrade/static/ts/full/module.ts`
The Angular Injector is the root 'Injector' for the upgrade application. The Bootstrap zone for the upgrade application. The Angular Injector is public SInjector: any

```typescript
import { SInjector, TestabilityDelegate, ITestabilityService } from ...

const injector = this.injector;
```

```typescript
// Cannot use arrow function below because we need the context

const newWhenStable = function(callback: Function) {
  originalWhenStable.call(testabilityDelegate, function() {
    const ng2Testability: Testability = injector.get(Testability);
    if (ng2Testability.isStable()) {
      callback();
      // 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
      // same vm turn.
      setTimeout(() => { this.ngZone.run(() => fn(...args)); }, delay, count, invokeApply, ...pass);
      (wrappedInterval as any)['cancel'] = intervalDelegate.cancel;
      return wrappedInterval;
    } else {
      return intervalDelegate(...args: any[]);
      // Wrap the $interval service so that setInterval is called outside NgZone,
      // but the callback is still invoked within it. This is so that $interval
      // won't block stability, which preserves the behavior from AngularJS.
      let wrappedInterval = (fn: Function, delay: number, count?: number, invokeApply?: boolean, ...pass: any[]): Function => {
        return this.ngZone.runOutsideAngular(() => {
          return intervalDelegate(...args: any[]);
        });
      };
      this.ngZone.runOutsideAngular(() => {
        return intervalDelegate(...args: any[]);
      });

      if (SInjector.has($INTERVAL)) {
        setTempInjectorRef($injector);
        this.injector.get($INTERIOR);
      // 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
      // same vm turn.
      setTimeout(() => { this.ngZone.run(() => fn(...args)); }, delay, count, invokeApply, ...pass);
      (wrappedInterval as any)['cancel'] = intervalDelegate.cancel;
      return wrappedInterval;
    } else {
      return intervalDelegate(...args: any[]);
      // Wrap the $interval service so that setInterval is called outside NgZone,
      // but the callback is still invoked within it. This is so that $interval
      // won't block stability, which preserves the behavior from AngularJS.
      let wrappedInterval = (fn: Function, delay: number, count?: number, invokeApply?: boolean, ...pass: any[]): Function => {
        return this.ngZone.run(() => {
          return intervalDelegate(...args: any[]);
        });
      };
      this.ngZone.runOutsideAngular(() => {
        return intervalDelegate(...args: any[]);
      });
    }
  });
```

```typescript
// Wire up the ng1 rootScope to run a digest cycle whenever the zone settles
```

```typescript
// We need to do this in the next tick so that we don't prevent the bootup
```

```typescript
// stabilizing
```

```typescript
// To run a digest cycle whenever the zone settles
```

```typescript
// We need to do this in the next tick so that we don't prevent the bootup
```

```typescript
// SInjector: any
```

```typescript
// Wire up the ng1 rootScope to run a digest cycle whenever the zone settles
```

```typescript
// We need to do this in the next tick so that we don't prevent the bootup
```

```typescript
// stabilizing
```

```typescript
// To run a digest cycle whenever the zone settles
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// We need to do this in the next tick so that we don't prevent the bootup
```

```typescript
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```

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```

```typescript
// stabilizing
```

```typescript
// To run a digest cycle whenever the zone settles
```

```typescript
// We need to do this in the next tick so that we don't prevent the bootup
```
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(); });

$rootScope.$on('$destroy', () => { subscription.unsubscribe(); });

angularModule(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));

// 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
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));
  };
}

export * from './index';

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, rootModule as ɵangular_packages_upgrade_static_static_b} from './src/angular1_providers';
No license file was found, but licenses were detected in source scan.

/**
 * @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
null ? Object.create(b) : (._proto_ = b.prototype, new _());

function export var _assign = function() {
    var _ = arguments[0];
    for (var p in b) if (b.hasOwnProperty(p))
        t[p] = s[p];
    if (s != null && typeof Object.getOwnPropertySymbols === "function")
        for (var i = 0, p = Object.getOwnPropertySymbols(s); i < p.length; i++) {
            if (e.indexOf(p[i]) < 0 &&
                t[p[i]] = s[p[i]];}
    return t;
}

function _export(target, symbol) {
    if (typeof Symbol === "function")
        target[symbol] = symbol;}

__rest(s, e) {
    var t = {};
    for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) &&
        e.indexOf(p) < 0)
        t[p] = s[p];
    return t;
}

__assign = Object.assign || function __assign(t) {
    for (var s, i = 1, n = arguments.length; i < n; i++) {
        if (s == null) continue;
        for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p))
            t[p] = s[p];
    }
    return t;
}

__extends(d, b) {
    d = b = d || {}; extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) { d.__proto__ = b; return d; }; extendStatics(d, b);
    function __() { this.constructor = d; }
    d.prototype = b === null ? null : new b();
    return b = new d, d.constructor = b;
}

__param(paramIndex, decorator) {
    return function (target, key) { decorator(target, key, paramIndex); }
}

__metadata(metadataKey, metadataValue) {
    if (typeof Reflect === "object" && typeof Reflect.metadata === "function")
        return Reflect.metadata(metadataKey, metadataValue);
}

_hasOwnProperty.call(s, p))
    t[p] = s[p];
}

executeSymbol;
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;
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]};
}
export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $slots?: {[slotName: string]};
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}
export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $slots?: {[slotName: string]};
}
export interface ICompileService {
  (element: Element|NodeList|Node|[]|string, transclude?: Function): ILinkFn;
}
export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $slots?: {[slotName: string]};
}
interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any, ...args: any[]): Promise<any>;
}

interface IntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;
}

interface TestabilityService {
  (elem: Element): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  (elem: Element): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
}

export interface IInterceptorService {
  (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?: boolean): Element[];
  (elem: Element): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
}

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;
  $viewValue: any;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {
    [key: string]: Function;
  };
  $asyncValidators: {
    [key: string]: Function;
  };
  $viewChangeListeners: Function[];
  $scope: Object;
  $timeout: Function;
  $onDestroy: Function;
  $injector: IInjectorService;
  $exceptionHandler: IInterceptorService;
  $provide: IInterceptorService;
  $rootScope: ITestabilityService;
  $controller: IInterceptorService;
  $delegate: IInterceptorService;
  $exceptionHandler: IInterceptorService;
  $injector: IInjectorService;
  $rootScope: ITestabilityService;
  $controller: IInterceptorService;
  $delegate: IInterceptorService;
  $exceptionHandler: IInterceptorService;
  $injector: IInjectorService;
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  $controller: IInterceptorService;
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  $exceptionHandler: IInterceptorService;
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  $controller: IInterceptorService;
  $delegate: IInterceptorService;
  $exceptionHandler: IInterceptorService;
  $injector: IInjectorService;
  $rootScope: ITestabilityService;
  $controller: IInterceptorService;
  $delegate: IInterceptorService;
  $exceptionHandler: IInter
Unable to find the specified downgraded module.

'Did you forget to downgrade an Angular module or include it in the AngularJS 'app'?'

throw new Error(`'${attemptedAction}': Unable to find the specified downgraded module. Not a valid '@angular/upgrade' application.`);

if (attemptedAction === 'downgrade') {
  return !function () {
    return false;
  }();
}

return !function () {
  return false;
}();
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.

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)) {
            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(() => {
        return (currValue: any) => {
          // Invoke `$observe()`
          if (this.implementsOnChanges) {
            const inputChanges = this.inputChanges;
            this.inputChanges = {};

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

setupOutputs() {
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
    const bindAttr = output.bindAttr.substring(0, output.bindAttr.length - 6);
    const bracketParenAttr = `[(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;

    if (attrs.hasOwnProperty(bindAttr)) {
      this.subscribeToOutput(output, attrs[bindAttr], true);
    }
    if (attrs.hasOwnProperty(bracketParenAttr)) {
      // order below is important - first update bindings then evaluate expressions
      if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.componentScope.$watch(() => {
          return (currValue: any) => {
            // If not opted out of propagating digests, invoke change detection
            // on every digest
            if (propagateDigest) {
              this.componentScope.$watch(this.wrapCallback(detectChanges));
            }
            unwatch = null;
            unwatch = null;
            const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
            appRef.attachView(this.componentRef.hostView);
          }
        });
      }
    }
  }

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

markForCheck():
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.
if (manuallyAttachView) {
  const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
  appRef.attachView(this.componentRef.hostView);
}

setupOutputs() {
  const attr = 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 bindAttr = output.bindAttr.substring(0, output.bindAttr.length - 6);
    const bracketParenAttr = `[(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;
    // order below is important - first update bindings then evaluate expressions
  }
}

if (attrs.hasOwnProperty(bindAttr)) {
  this.subscribeToOutput(output, attrs[bindAttr], true);
}
if (attrs.hasOwnProperty(bracketParenAttr)) {
  // order below is important - first update bindings then evaluate expressions
  this.unsubscribeToOutput(output, attrs[bindAttr], true);
}
if (attrs.hasOwnProperty(bracketParenAttr)) {
  // order below is important - first update bindings then evaluate expressions
}
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);
    this.callbacks.push(callback);
  }
}

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

/**
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 * 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, InjectorService, INgModelController, IParseService, IScope} from './angular1';

import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './consts';

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
 * component, that will make 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
 * `downgraded()` component.
 *
 * @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.
 *   (This option is only necessary when using `downgradeModule()` to downgrade more than one
 *   Angular module.)
 * - `propagateDigest?: boolean`: Whether to perform change detection on the component on every
 *   change detection on the component on every
 *
 * @publicApi
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
}) {
  const directiveFactory:
      IAnnotatedFunction = function($compile, $injector, $parse): IDirective {
        // When using `downgradeModule()`, we need to handle certain things specially. For example:
        // - We always need to attach the component view to the `ApplicationRef` for it to be
        // dirty-checked.
        // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
        // Angular zone.
        // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
        // inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
        // force it back in)
        const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
        const wrapCallback: <T>(cb: (cb: () => T) => typeof cb = null, isNgUpgradeLite ? cb => cb : cb => cb) => null;
        let ngZone: NgZone;
        // When downgrading multiple
modules, special handling is needed wrt injectors:
const hasMultipleDowngradedModules =
isNgUpgradeLite && (getDowngradedModuleCount($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 lazyModuleRefKey = `$L${LAZY_MODULE_REF}$`;
  const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;

  validateInjectionKey($injector, info.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.)
// In that case, we could have used 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 downgraded component
// (e.g. because there is only
// one downgraded module, we use that `parentInjector` as both
// `finalModuleInjector` and the
// `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
// in declaring the `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 the `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;

// If there is a parent component that belongs to the same
// `NgModule`, use its injector.

const finalModuleInjector = moduleInjector;

const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this
  // component belongs to.

  const componentFactoryResolvers = new ParentInjectorPromise(element);

  for (const factory of componentFactoryResolvers) {
    if (factory.injector) {
      new Error('Expected ComponentFactory for: ');
    }
    injectorPromise = new ParentInjectorPromise(element);

    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,

    componentFactory, wrapCallback);

    const projectableNodes = facade.compileContents();

    moduleInjector.getComponentFactoryResolver();

    const componentFactory = ComponentFactory<any> =
    componentFactoryResolvers.resolveComponentFactory(info.component);

    if (!componentFactory) {
      throw new Error('Expected ComponentFactory for: ');
    }
    componentFactory = new ParentInjectorPromise(element);

    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,

    componentFactory, wrapCallback);

    const projectableNodes = facade.compileContents();

    moduleInjector.getComponentFactoryResolver();

    const componentFactory = ComponentFactory<any> =
    componentFactoryResolvers.resolveComponentFactory(info.component);

    if (!componentFactory) {
      throw new Error('Expected ComponentFactory for: ');
    }
    componentFactory = new ParentInjectorPromise(element);

    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,

    componentFactory, wrapCallback);

    const projectableNodes = facade.compileContents();

    moduleInjector.getComponentFactoryResolver();

    const componentFactory = ComponentFactory<any> =
    componentFactoryResolvers.resolveComponentFactory(info.component);

    if (!componentFactory) {
      throw new Error('Expected ComponentFactory for: ');
    }
    componentFactory = new ParentInjectorPromise(element);

    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,

    componentFactory, wrapCallback);

    const projectableNodes = facade.compileContents();

    moduleInjector.getComponentFactoryResolver();

    const componentFactory = ComponentFactory<any> =
    componentFactoryResolvers.resolveComponentFactory(info.component);

    if (!componentFactory) {
      throw new Error('Expected ComponentFactory for: ');
    }
    componentFactory = new ParentInjectorPromise(element);

    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,

    componentFactory, wrapCallback);

    const projectableNodes = facade.compileContents();

    moduleInjector.getComponentFactoryResolver();

    const componentFactory = ComponentFactory<any> =
    componentFactoryResolvers.resolveComponentFactory(info.component);

    if (!componentFactory) {
      throw new Error('Expected ComponentFactory for: ');
    }
    componentFactory = new ParentInjectorPromise(element);

    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
```javascript
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(() => {});
}

const downgradeFn = !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
  if (!ngZone) {
    ngZone = pInjector.get(NgZone);
  }

  wrapCallback(() => doDowngrade(pInjector, mInjector))();
}

// NOTE: Not using 'ParentInjectorPromise.all()' (which is inherited from 'SyncPromise'), because
// Closure Compiler (or some related tool) complains:

SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>
  downgradeFn(pInjector, mInjector));

ranAsync = 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`. */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY);

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data(this.injectorKey, this);
  }

  resolve(injector: Injector): void {
    // Release the element to prevent memory leaks.
    this.element = null;

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

/**
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 * 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
 * service identified by the `token` parameter.
 *
 * *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
 * visible to the Angular service by identifying the service name with a
 * custom key.
 *
 * In AngularJS, we have:
 *
 * ```typescript
 * import {HeroesService} from 'hero.module';
 *
 * @Injectable()
 * export class Ng2HeroesService {
 *   @inject(HeroesService)
 *   heroes: HeroesService;
 *   @inject(HeroesService, {static: true})
 *   ng2HeroesService: HeroesService;
 *   constructor() {
 *     // Downgraded service
 *   }
 * }
 * ```
 *
 * Now when downgrading, the following service will be available from the `HeroesService`.
 *
 * ```typescript
 * import {HeroesService} from 'hero.module';
 *
 * @Injectable()
 * export class Ng2HeroesService {
 *   @inject(HeroesService)
 *   heroes: HeroesService;
 *   @inject(HeroesService, {static: true})
 *   ng2HeroesService: HeroesService;
 *   constructor() {
 *     // Downgraded service
 *   }
 * }
 * ```
 *
 * As a result, we can have the following services available from the
 * Ng2HeroesService.
 *
 * ```typescript
 * import {HeroesService} from 'hero.module';
 *
 * @Injectable()
 * export class Ng2HeroesService {
 *   @inject(HeroesService)
 *   heroes: HeroesService;
 *   @inject(HeroesService, {static: true})
 *   ng2HeroesService: HeroesService;
 *   constructor() {
 *     // Downgraded service
 *   }
 * }
 * ```
 *
 * * @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
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular
 * module).
 *
 * @returns a [factory function](https://docs.angularjs.org/api/ng/type/injector) that can be used
 * to register the service on an AngularJS module.
 * 
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 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const fn = (pInjector: Injector, mInjector: Injector) =>
    downgradeModule(pInjector, mInjector);
IInjectorService) {
  \n  const injectorKey = `$\{INJECTOR_KEY\}\$\{downgradedModule\}`;
  \n  const InjectableName = isFunction(token) ? getTypeName(token) : String(token);
  const attemptedAction = `instantiating injectable '$\{InjectableName\}'`;

  validateInjectionKey(injector, downgradedModule, injectorKey, attemptedAction);

  const injector: Injector = injector.get(injectorKey);
  return injector.get(token);
}

\n/**
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 *
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 * 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, 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.link && !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.`);
    }

    return new Promise((resolve, reject) => {
      \n      // Quoted properties below so that this code can be optimized with Closure Compiler.$\{locals = \{
        'scope': $scope, 'element': this.$element \};$\{local = \$
        \n        const controller = this.$controller(controllerType, locals, null,
        this.$controllerAs);
        \n        this.$element.data !(controllerKey(this.directive.name !), controller);
        \n        $compileTemplate(template?: string): ILinkFn $\{ if (template !== undefined) \n        \n        angularElement(this.$element);$\{\n        \n        return $\{this.compileHtml(template)\};$\{\n        \n        this.onDestroy($\{scope: IScope, controllerInstance?: any\}$\{ if
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```javascript
(function(controllerInstance && isFunction(controllerInstance.$onDestroy)) { // Ensure $scope.$destroy() isn't called before the DOM is re-created
  if (!$scope.$destroy()) { // Clean the jQuery/jqLite data on the component+child elements
    let templateElement = angularElement.$transclude!(scope, cloneAttachFn)(); // `cloneAttachFn` will try to destroy the transclusion scope if
    angularElement.cleanData(templateElement.element.querySelectorAll('*'));
    angularElement.$transclude(attachChildrenFn, scope, cloneAttachFn); // `cleanData` will invoke the AngularJS `$destroy()` DOM event
  }

  prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      const $template = 
        // Prevent `cloneAttachFn` from throwing
        scope.$destroy(): undefined;
        return
        cloneAttachFn !($template, scope); // $template = buttonActive$ for the buttonActive directive
      };
    let $template = contentChildNodes;

    if (transclude) {
      const 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 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) // NOTE: Transcluded text
        // content that starts with whitespace followed by an interpolation // will still fail to be detected by AngularJS
        // v1.6+
        Object.keys(slots).forEach(slotName => {
          const nodes = slots[slotName];
          slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
            return
            cloneAttach !(). // The V2 component api has an extra parameter:
          };
        });

        // 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) // NOTE: Transcluded text
        // content that starts with whitespace followed by an interpolation // will still fail to be detected by AngularJS
        // v1.6+
        };

        // 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) // NOTE: Transcluded text
        // content that starts with whitespace followed by an interpolation // will still fail to be detected by AngularJS
        // v1.6+
        };
```

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bindingType = definition.charAt(0);
const bindingOptions = definition.charAt(1);
const attrName = definition.substring(bindingOptions === '=' ? 2 : 1) || propName;
// QUESTION: What about `=`*? Ignore?
Throw? Support?
const inputName = `input_${attrName}`;
const inputNameRename = `${inputName}: ${attrName}`;
const outputName = `output_${attrName}`;
const outputNameRename = `${outputName}: ${attrName}`;
const outputNameRenameChange = `${outputName}: ${attrName}Change`;

switch (bindingType) {
  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
    }[],
    $injector: IInjectorService): Promise<string[]> {
    const promises = Object.keys(exportedComponents).map(name => {
      const exportedComponent = exportedComponents[name];
      exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
      exportedComponent.extractBindings();

      return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
        .then(template => exportedComponent.template = template);
    });

    return Promise.all(promises);
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance:
    IControllerInstance|null = null;
  destinationObj: IBindingDestination|null = null;
  checkLastValues: any[] = [];
  directive: IDirective;
  element: Element;
  $element: any = null;
  componentScope: IScope;

  constructor(
    private helper: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {
      key: string
    }[],
  ) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    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);
      this.destinationObj = this.controllerInstance;
    } else {
      this.destinationObj = this.componentScope;
      for (let i = 0; i < inputs.length; i++) {
        this[inputs[i]] = null;
      }
      for (let j = 0; j < outputs.length; j++) {
        const emitter = this[outputs[j]] = new EventEmmitter();
        const property = (this.propOuts.indexOf(outputs[j]) !== -1)
          { this.setComponentProperty(outputName, (emitter => (value: any) => emitter.emit(value)))(emitter));
        this.checkLastValues.push(INITIAL_VALUE);
      }
    }
  }

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

    // Require other controllers
    const requiredControllers =
      this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

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

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate(this.componentScope);
    // Instantiate controller (if not already done so)
    const controllerType = this.directive.controller;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    }

    // Require other controllers
    const requiredControllers =
      this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onInit
    if (isFunction(this.controllerInstance.$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.$element, attrs, requiredControllers, transcludeFn);
    }
  }
}
UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);\n * const module =
angular.module('myExample', []);\n * module.directive('ng2Comp',
adapter.downgradeNg2Component(Ng2Component));\n *\n * module.directive('ng1Hello', function() {\n * return
{\n *
scope: { title: '=' },\n *
template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'\n * };\n * });\n
*\n *\n * @Component({\n * selector: 'ng2-comp',\n * inputs: ['name'],\n * template: 'ng2[<ng1-hello
[title]=\"name\">transclude</ng1-hello>](<ng-content></ng-content>)',\n * directives:\n * })\n * class
Ng2Component {\n * }\n *\n * @NgModule({\n * declarations: [Ng2Component,
adapter.upgradeNg1Component('ng1Hello')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n *\n * document.body.innerHTML = '<ng2-comp name=\"World\">project</ng2-comp>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *
\"ng2[ng1[Hello World!](transclude)](project)\");\n * });\n *\n
* ```\n *\n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n * [Ahead-ofTime compilation](guide/aot-compiler).\n * @publicApi\n */\nexport class UpgradeAdapter {\n private idPrefix:
string = `NG2_UPGRADE_${upgradeCount++}_`;\n private downgradedComponents: Type<any>[] = [];\n /**\n
* An internal map of ng1 components which need to up upgraded to ng2.\n *\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 *\n * @internal\n */\n private ng1ComponentsToBeUpgraded:
{[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};\n private upgradedProviders: StaticProvider[] =
[];\n // TODO(issue/24571): remove '!'.\n private ngZone !: NgZone;\n // TODO(issue/24571): remove '!'.\n
private ng1Module !: IModule;\n private moduleRef: NgModuleRef<any>|null = null;\n // TODO(issue/24571):
remove '!'.\n private ng2BootstrapDeferred !: Deferred<IInjectorService>;\n\n 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 }\n }\n\n /**\n * Allows
Angular Component to be used from AngularJS.\n *\n * Use `downgradeNg2Component` to create an AngularJS
Directive Definition Factory from\n * Angular Component. The adapter will bootstrap Angular component from
within the\n * AngularJS template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The component is
instantiated by being listed in AngularJS template. This means that the\n * host element is controlled by
AngularJS, but the component's view will be controlled by\n * Angular.\n * 2. Even thought the component is
instantiated in AngularJS, it will be using Angular\n * syntax. This has to be done, this way because we must
follow Angular components do not\n * declare how the attributes should be interpreted.\n * 3. `ng-model` is
controlled by AngularJS and communicates with the downgraded Angular component\n * by way of the
`ControlValueAccessor` interface from @angular/forms. Only components that\n * implement this interface are
eligible.\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 * - ng-model: `<comp ng-model=\"name\">`\n * - Content
projection: yes\n *\n * ### Example\n *\n * ```\n * const adapter = new UpgradeAdapter(forwardRef(() =>
MyNg2Module));\n * const module = angular.module('myExample', []);\n * module.directive('greet',
adapter.downgradeNg2Component(Greeter));\n *\n * @Component({\n * selector: 'greet',\n * template:
'{{salutation}} {{name}}! - <ng-content></ng-content>'\n * })\n * class Greeter {\n * @Input() salutation:
string;\n * @Input() name: string;\n * }\n *\n * @NgModule({\n * declarations: [Greeter],\n * 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 downgradeNg2Component(component: Type<any>): Function {\n
this.downgradedComponents.push(component);\n\n return downgradeComponent({component});\n }\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

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component is instantiated by being listed in Angular template. This means that the host element is controlled by Angular, but the component’s view will be controlled by AngularJS. * AngularJS.

### Supported Features
- **Bindings:**
  - Attribute: `<comp name="World">` - Attribute:
  - Interpolation: `<comp greeting="Hello { [name] }">` - Expression: `<comp [name]="username" />
  - Event: `<comp (close)="doSth()">` - Transclusion: yes

### Example
```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));

const module = angular.module('myExample', []);

module.directive('greet', function() {
  return {
    scope: {salutation: '=', name: '=' },
    template: '{{salutation}} {{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));

@Component({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>'
})
class Ng2Component {
}

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
  imports: [BrowserModule]
})
class MyNg2Module {}
```

@bootstrap(document.body, ['myExample']).then(ng1Injector => {
  expect(document.body.textContent).toContain("Hello World!");
});
```typescript
* ```

```
```
```
```
```
```
```
Zone.hasOwnProperty('longStackTraceZoneSpec'))); this.ng2BootstrapDeferred = new Deferred();
.ng1Module.constant(UPDATE_APP_TYPE_KEY, UpgradeAppType.Dynamic)
.factory(INJECTOR_KEY, () => this.moduleRef.$injector.get(INJECTOR))
.factory(LAZY_MODULE_REF, [INJECTOR_KEY, (injector: Injector) => ({ inject: injector, as LazyModuleRef })])
.constant(NG_ZONE_KEY, this.ngZone)
.factory(COMPILER_KEY, () => this.moduleRef.$injector.get(Compiler))
.config(['$provide', 'Sinjector', ($provide, $injector, 'ng1Injector': Injector) => $provide.decorator(SROOT_SCOPE, { $delegate: $injector.get(SROOT_SCOPE) })])
.factory(rootScopeDelegate: IRoocRootScopeService) { // Capture the root apply so that we can delay first call to $apply until we're bootstrap Angular and then we replay and restore the $apply.

rootScopePrototype = rootScopeDelegate.$injector.get(Injector)

if (rootScopePrototype.hasOwnProperty('Sapply')) { originalSapplyFn = rootScopePrototype.Sapply;
    rootScopePrototype.Sapply = (exp: any) => delayApplyExps.push(exp);
    ng1Module.config([{ 'provide': 'Sinjector', ' Sinjector': this.moduleRef.$injector.get(Injector) })]
    ng1Module.constant('STESTABILITY', $injector.get($TESTABILITY));

    ng1Module.run(['$injector', '$rootScope', (injector: IInjectorService, rootScope: IRootScopeService) => {

    UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, injector)
        .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: () => injector },
                { provide: $COMPILE, useFactory: () => injector.get($COMPILE) }
            ],

          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, ...
g Module})
            class

            platformRef
                .bootstrapModule(DynamicNgUpgradeModule, {this.compilerOptions!

                (ngZone: this.ngZone))
                .then((ref: NgModuleRef<any>) => {

                  this.moduleRef = ref;

                  this.ngZone.run(() => {
                    let subscription =
                        this.ngZone.onMicrotaskEmpty.subscribe({
                          next: () => {
                            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();
                    }
                  });

                  subscription.unsubscribe();
                });

            return ng1Module;
          }]);
        }]);
      }]);
    return ng1Module;
  }
}

/**
 * Synchronous
 * promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's $compile.

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```typescript
/*class ParentInjectorPromise {  // TODO(issue/24571): remove '!'.
  private injector!: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element data
    element.data(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;
      // clean out the element to prevent memory leaks
      element.data(INJECTOR_KEY, injector);
      // run all the queued callbacks
      this.callbacks.forEach((callback) => callback(injector));
      this.callbacks.length = 0;
    }
}

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.  
 * @deprecated Since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compiler](guide/aot-compiler).  
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1Scope: 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.
   * The `ready` callback function is invoked
   * inside the Angular zone, therefore it does not require a call to `$apply()`.
   */
  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();
  }
}

/**
 * Generated bundle index. Do not edit.
 */
export * from './index';
```
AE,gBAAgB,EAAE,eBAAE,CAAC,CAC;wBAErf,IAM,aaAa,GAAG,SAAS,CAAC,GAAG,C AAC,gBAAgB,CAAb,B,CAAC;wBACVe,CAAc,GAAG,aAaAa,CAAC,QAAQ,IAAI,aaAa,CAAC,QAAC,OAAB4,B,CAAC,q BACvF;.........................;oBAoCD,IAAM,mBAAAmB,GAGG,CAAc,IAAIcAABB,GCAAC;...oBAAK/D,IAAM, mBAAAmB,GAGG,CAAc,IAAIcAABB,GCAAC;oBAAE/D,IAAM,WAAG,GAAG,UAAC,QAAkB,EAEE,eBAAwB;... wBAG/D,IAAM,WAABwB,GAC1B,B,eAc,CAAc,GAAG,CAAC,GAAC,6BAAwB,CAAC,CAAC;wBACjD,IAAM,GAgBA AgB,GACiB,WAABwB,CAAC,uBAAuB,CAAC,IAAI,CAAC,SAAS,CAAG,CAAC;wBAEvE,IAAI,CAAC,GAAG,CAAC, qBAoCD,IAAI,CAAC,QAAC,OAAB4,B,CAAC,qBAoCD,IAAI,CAAC,QAAC,OAAB4,B,CAAC,qBAoCD,IAAI,CAAC, QAAC,OAAB4,B,CAAC,qBAoCD,IAAI,CAAC,QAAC,OAAB4,B,CAAC,qBAoCD,IAAI,CAAC,QAAC,OAAB4,B,CAAC,q
1.855 slf4j 1.7.30

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1.865 apt 1.8.2

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