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Contents

1.1 base64-conversion-utility-class 2.2.2
   1.1.1 Available under license
1.2 jakarta-ws-rs-api 2.1.5
   1.2.1 Available under license
1.3 objenesis 2.6
   1.3.1 Available under license
1.4 quartz 2.3.0
1.5 bouncy-castle 1.60
   1.5.1 Available under license
1.6 apache-log4j 2.11.1
   1.6.1 Available under license
1.7 servo-core 0.12.21
   1.7.1 Available under license
1.8 component-inherit 0.0.3
   1.8.1 Available under license
1.9 simpleclient 0.7.0
   1.9.1 Available under license
1.10 ca-certificates-java 20190405
   1.10.1 Available under license
1.11 yeast 0.1.2
   1.11.1 Available under license
1.12 bash 5.0 4
   1.12.1 Available under license
1.13 jcommander 1.48
1.14 free-type 2.6.3 3.2
   1.14.1 Available under license
1.15 batik-css 1.11
  1.15.1 Available under license
1.16 jetty-security 9.4.26.v20200117
  1.16.1 Available under license
1.17 jersey-entity-filtering 2.28
  1.17.1 Available under license
1.18 micrometer-core 1.3.2
  1.18.1 Available under license
1.19 after 0.8.2
  1.19.1 Available under license
1.20 isomorphic-fetch 2.2.1
  1.20.1 Available under license
1.21 jackson-databind 2.9.9.2
  1.21.1 Available under license
1.22 commons-codec 1.9
  1.22.1 Available under license
1.23 ribbon-loadbalancer 2.3.0
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  1.25.1 Available under license
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  1.28.1 Available under license
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  1.29.1 Available under license
1.30 browserify-aes 1.2.0
  1.30.1 Available under license
1.31 velocity 2.0
  1.31.1 Available under license
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1.86.1 Available under license

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   1.96.1 Available under license
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   1.97.1 Available under license
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1.99 jetty-xml 9.4.26.v20200117
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1.104 hoist-non-react-statics 3.3.0
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   1.111.1 Available under license
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   1.114.1 Available under license
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  1.123.1 Available under license
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1.127 commons-beanutils 1.9.3
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1.128 selinux 2.8-1+b1
  1.128.1 Available under license
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1.135.1 Available under license

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1.139.1 Available under license

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1.143.1 Available under license

**1.144 spring-beans 3.2.17**
1.144.1 Available under license

**1.145 spring-framework 3.2.17**
1.145.1 Available under license

**1.146 brave-instrumentation-jms 5.9.0**
1.146.1 Available under license

**1.147 diffie-hellman 5.0.3**
1.147.1 Available under license

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1.148.1 Available under license

**1.149 jackson-datatype-jdk8 2.10.2**
1.149.1 Available under license

**1.150 apt 1.8.2**
1.150.1 Available under license

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1.151.1 Available under license

**1.152 typetools 0.5.0**

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**1.154 tslib 1.13.0**
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1.156 ripemd160 2.0.2
   1.156.1 Available under license
1.157 adduser 3.115
   1.157.1 Available under license
1.158 ribbon-transport 2.3.0
1.159 zipkin-reporter-metrics-micrometer 2.11.0
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1.160 snmp-4j 2.4.1
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1.161 libxcb 1.12 1
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1.162 openjdk 11.0.5+10-1~bpo9+1
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   1.165.1 Available under license
1.166 json-java 20140107
1.167 spring-expression 5.2.3
   1.167.1 Available under license
1.168 vdom-virtualize 2.0.0
   1.168.1 Available under license
1.169 libsepol 2.8 1
   1.169.1 Available under license
1.170 feign-form-spring 3.8.0
   1.170.1 Available under license
1.171 angularjs-nvd3-directives 0.0.8
   1.171.1 Available under license
1.172 jackson 2.10.2
   1.172.1 Available under license
1.173 setimmediate 1.0.5
   1.173.1 Available under license
1.174 keyutils 1.5.9-9
   1.174.1 Available under license
1.175 create-hmac 1.1.7
   1.175.1 Available under license
1.176 pcsc-lite 1.8.26-3~bpo10+1
   1.176.1 Available under license
1.177 jaxb-api 2.2.11
   1.177.1 Available under license
1.178 is-object 3.0.1
   1.178.1 Available under license
1.179 websocket-api 9.4.26.v20200117
   1.179.1 Available under license
1.180 split-js 1.6.0
   1.180.1 Available under license
1.181 spring-retry 1.2.5
   1.181.1 Available under license
1.182 vm-browserify 1.1.2
   1.182.1 Available under license
1.183 ieee754 1.1.13
   1.183.1 Available under license
1.184 minimalistic-crypto-utils 1.0.1
1.185 has-cors 1.1.0
1.186 regenerator-runtime 0.13.3
   1.186.1 Available under license
1.187 slf4j 1.7.30
   1.187.1 Available under license
1.188 elliptic 6.5.2
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1.189 commons-io 2.6
   1.189.1 Available under license
1.190 udev 232 25+deb9u12
   1.190.1 Available under license
1.191 servlet-api 4.0.3
   1.191.1 Available under license
1.192 springfox-core 2.9.2
   1.192.1 Available under license
1.193 gradle 2.3.0
1.194 yaws 2.0.6
   1.194.1 Available under license
1.195 asm-analysis 7.1
1.196 jetty-client 9.4.26.v20200117
   1.196.1 Available under license
1.197 libxml 2.9.8
1.197.1 Available under license
1.198 angular-xeditable 0.1.12
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  1.199.1 Available under license
1.200 kafka-clients 2.3.1
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  1.202.1 Available under license
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  1.203.1 Available under license
1.204 openjdk-jre 11.0.5+10-1~bpo9+1
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1.205 fontconfig 2.13.1 2
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1.206 babel-runtime 7.7.2
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[From the source code, Base64.java]

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* periodically to check for updates or to contribute improvements.
* &lt;/p&gt;
* 
* @author Robert Harder
* @author rob@iharder.net
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1.2 jakarta-ws-rs-api 2.1.5
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1.4 quartz 2.3.0

1.5 bouncy-castle 1.60

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1.6 apache-log4j 2.11.1

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1.7 servo-core 0.12.21

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1.8 component-inherit 0.0.3

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1.9 simpleclient 0.7.0

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2006-Jan-27

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* 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
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org.mortbay.jasper:apache-jsp
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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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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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1.20 isomorphic-fetch 2.2.1

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1.21 jackson-databind 2.9.9.2

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1.23 ribbon-loadbalancer 2.3.0

1.24 spring-cloud-context 2.2.0
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**1.25 whatwg-fetch 3.0.0**

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**1.26 xz 5.2.2 1.2+b1**

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1.28 grep 3.3 1
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1.38 evp_bytestokey 1.0.3

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1.40 spring-cloud-starter-consul 2.2.0

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1.41 hk2-utils 2.5.0

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

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

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$Header$
$Revision: 1162 $
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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 $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/jdom/XPathNamespace.java

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* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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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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* Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Header$
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* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006)$
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
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$Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo$

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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z 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/expr/DefaultFilterExpr.java

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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: NotFunction.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: 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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 * $Header$
 * $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 $
*/

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* /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 $
*/

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

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

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

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* $Id: IterableDescendantAxis.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: AnyNodeTest.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/AnyNodeTest.java
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* $Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FunctionCallExpr.java
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* $Id: XPathReader.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/XPathReader.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* *
* $Id: NormalizeSpaceFunction.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/NormalizeSpaceFunction.java
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* $Id: PositionFunction.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/PositionFunction.java
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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z 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/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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* */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java
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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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

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 * $Header$
 * $Revision: 1364 $
 * $Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) $
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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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* $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-
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  * $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
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$lId: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo$

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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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 * $Id: DOMXPath.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/dom/DOMXPath.java

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

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

Found in path(s):
* /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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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
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* $Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
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/*
$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $

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 * $Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
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  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/jdom/JDOMXPath.java
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* $Id: FollowingSiblingAxisIterator.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/FollowingSiblingAxisIterator.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: $
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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/JaxenRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/JaxenConstants.java
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 * $Revision: 1268 $
 * $Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) $
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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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$Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo $

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/*
$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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

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 * $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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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: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $
 */

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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $

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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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* $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 $
*/

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

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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z 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/dom/NamespaceNode.java
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 * $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
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* $Id: FollowingAxisIterator.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/FollowingAxisIterator.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: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z 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/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 $
* /

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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 * $Id: LangFunction.java 1128 2006-02-05 21:49:04Z 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/expr/DefaultTextNodeStep.java
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* $Revision: 1324 $
* $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 $

Found in path(s):
/ /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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $
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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 $
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* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
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jar/org/jaxen/xom/DocumentNavigator.java

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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 $
*/

Found in path(s):
* /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 $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultOrExpr.java
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* $Header$
* $Revision: 1306 $
* $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-
  jar/org/jaxen/expr/XPathExpr.java
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* $Revision: 1226 $
* $Date: 2006-11-08 07:44:33 -0800 (Wed, 08 Nov 2006) $
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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/ProcessingInstructionNodeStep.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: SimpleNamespaceContext.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/SimpleNamespaceContext.java
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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-
  jar/org/jaxen/function/BooleanFunction.java
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 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableDescendantOrSelfAxis.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/IterableDescendantOrSelfAxis.java
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jar/org/jaxen/pattern/UnionPattern.java

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 * $Id: PatternHandler.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/PatternHandler.java
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  jar/org/jaxen/expr/DefaultLessThanExpr.java
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* $Revision: 1255 $
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$Id: SingleObjectIterator.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/SingleObjectIterator.java

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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-
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* $Id: LogicalExpr.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/LogicalExpr.java
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 * $Header$
 * $Revision: 1386 $
 * $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
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$Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $

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

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* $Id: IdFunction.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/IdFunction.java
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* $Revision: 1325 $
* $Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
*/

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

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

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* $Id: StringFunction.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/StringFunction.java
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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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* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/NamedAccessNavigator.java
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 * $Revision: 1128 $
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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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jar/org/jaxen/function/ContainsFunction.java

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

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultModExpr.java
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
*/

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

Found in path(s):  
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyChildNodeTest.java  
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* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
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 * $Id: NameFunction.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: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $

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* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*/

Found in path(s):
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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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 * $Revision: 1193 $
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* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
*/

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

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  * $Id: NodeTest.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/NodeTest.java
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 * $Revision: 1161 $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

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  /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathSyntaxException.java
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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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/*
* $Header$
* $Revision: 1326 $
* $Date: 2008-04-26 18:56:10 -0700 (Sat, 26 Apr 2008) $
/*
$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo$

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

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Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo
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 * $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
Found in path(s):
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$Id: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo $

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* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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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/expr/DefaultStep.java
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 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Revision: 1134 $
* $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 $
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/Pattern.java
No license file was found, but licenses were detected in source scan.
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*$Header$
No license file was found, but licenses were detected in source scan.

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 * $Header$
 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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 * $Id: JavaBeanXPath.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/javabean/JavaBeanXPath.java
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: NameTest.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/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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 * $Header$
 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
 * $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
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$Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $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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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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$Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo $

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* $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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1.44 ca-certificates-java 20170929~deb9u3

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1.45 xmlrpc-client 3.1.3

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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.)

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
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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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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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specified in Subsection 6a, above, for a charge no more
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d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

1.52 gmp 6.1.2+dfsg 4

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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
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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
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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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

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

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MortBay

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.54 brave-instrumentation-kafka-clients 5.9.0

1.55 commons-runtime 3.0.7

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* /opt/ws_local/PERMITS_SQL/1018365982_1591320354.49/0/junit-4-11-sources-jar/org/junit/runners/model/MultipleFailureException.java
1.58 debian-archive-keyring 2019.1

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This package was originally put together by Michael Vogt <mvo@debian.org>

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1.59 websocket-common 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
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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

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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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OW2

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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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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/GPLv2.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.60 sed 4.4 1
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1.66 mime-support 3.60
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Source: git://anonscm.debian.org/collab-maint/mime-support.git

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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/retry/Retry.java
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jar/reactor/retry/DefaultRetry.java
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jar/reactor/retry/Jitter.java
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jar/reactor/retry/DefaultRepeat.java
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jar/reactor/retry/Repeat.java
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  jar/reactor/function/Predicate4.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/math/MathSubscriber.java
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  jar/reactor/function/Function3.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
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  jar/reactor/function/Function5.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/function/Function8.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/function/Predicate5.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/function/Consumer4.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/cache/CacheMono.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/math/MonoSumDouble.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/function/Consumer3.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/math/MonoMinMax.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/function/Consumer8.java
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/extra/processor/WaitStrategy.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/extra/processor/TopicProcessor.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoAverageBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoSumBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoSumBigInteger.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/extra/processor/EventLoopProcessor.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoAverageBigInteger.java
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1.72 netty-handler 4.1.45

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/tcp/ReconnectStrategy.java
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----------------------------------------------------------------------
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* org.eclipse.jetty.orbit:javax.security.auth.message

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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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OW2

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

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

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-jasper-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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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.

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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.)

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

6. As an exception to the Sections above, you may also combine or 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.

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

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

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

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dns.c - Recursive, Reentrant DNS Resolver.

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
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1.97 systemd 241-7~deb10u3

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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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

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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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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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1.100 spring-cloud-starter 2.2.0

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**jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-
**jar/com/google/errorprone/annotations/CheckReturnValue.java
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**jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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jar/com/google/errorprone/annotations/ForOverride.java
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* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-
jar/com/google/errorprone/annotations/CompileTimeConstant.java

1.102 txw2 2.3.0

1.103 spring-tx 5.2.3

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man/bitstring.3bsd
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1.112 jetty-http 9.4.26.v20200117

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

org.eclipse.jetty.toolchain:jetty-schemas

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
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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.

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.

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

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

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

6. As an exception to the Sections above, you may also combine or 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.

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

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

e) 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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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.

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1.119 Tar 1.29b 1.1

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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.

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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.

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1.128 selinux 2.8-1+b1
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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     || strcmp(license, "GPL and additional rights") == 0 
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Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
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 NICStAR 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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<contributors>
  <introduction>
  These are some of the many people who have helped Ant become so successful.
  </introduction>
  <name>
   <first>Adam</first>
   <last>Blinkinsop</last>
  </name>
  <name>
   <first>Adam</first>
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1.154 tslib 1.13.0

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*****************************************************************************

1.155 arraybuffer.slice 0.0.6
1.155.1 Available under license:
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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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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774230_1591430399.74/0/arraybuffer-slice-0-0-6-3-tgz/package/README.md

1.156 ripemd160 2.0.2
1.156.1 Available under license:
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1.157 adduser 3.115

1.157.1 Available under license :

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.158 ribbon-transport 2.3.0

1.159 zipkin-reporter-metrics-micrometer

2.11.0

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1.160 snmp-4j 2.4.1
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1.166 json-java 20140107

1.167 spring-expression 5.2.3

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Jackson is a high-performance, Free/Open Source JSON processing library.
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1.173 setimmediate 1.0.5

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1.174 keyutils 1.5.9-9

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1.179 websocket-api 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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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

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* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jsp
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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1.181 spring-retry 1.2.5
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1.182 vm-browserify 1.1.2

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1.184 minimalistic-crypto-utils 1.0.1

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1.187 slf4j 1.7.30

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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

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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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.

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1.199 commons-compress 1.19

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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

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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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1.209 systemd 241-7~deb10u4

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1.218 sysv-init 2.93 8

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

Preamble

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

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>.

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

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```
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
```
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:$(BSD_LIB)

$(BSD_LIB): $(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-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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright:
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
- Copyright (C) Andrew Tridgell 2005
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
 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/

 From the original distribution:

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 Gadi Oxman, August 1995
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core/src/main/java/org/jctools/util/Pow2.java
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Found in path(s):
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core/src/main/java/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
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core/src/main/java/org/jctools/queues/MpmcArrayQueue.java
*/

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/singles/BlockingSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/AsyncOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/AsyncOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleDoAfterTerminate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/BlockingUtils.java

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/ActionN.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorNotImplementedException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action9.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/BehaviorSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureDrop.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/CompositeException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/NewThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMaterialize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func2.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/GroupedObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTakeUntil.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action4.java
jar/rx/schedulers/TestScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action1.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/TestObserver.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorAny.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorScan.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/EventLoopsScheduler.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaPlugins.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BlockingOperatorNext.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorCast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDoOnEach.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/BlockingObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/ImmediateScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/ConnectableObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CachedObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorFailedException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func1.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorIgnoreElements.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BufferUntilSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/TrampolineScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/MultipleAssignmentSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/NotificationLite.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/PublishSubject.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorReplay.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/CompositeSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorZipIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func5.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/CompositeSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDelay.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/TestSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/FuncN.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/SerializedSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/NewThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorThrowable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRedo.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFilter.java
/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMerge.java

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

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* /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-
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core/src/main/java/org/jctools/queues/SpscLinkedQueue.java
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jar/rx/internal/operators/OnSubscribeCollect.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/DeferredScalarSubscriberSafe.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/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/ExceptionsUtils.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/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/SingleOnSubscribeReduce.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleOperatorZip.java
* /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/OnSubscribePublishMulticast.java

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorBufferWithSingleObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeTimerOnce.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/schedulers/ExecutorScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMulticast.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorRetryWithPredicate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMapPair.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSkipTimed.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTakeTimed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRefCount.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDistinct.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRefCount.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/NewThreadWorker.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/PlatformDependent.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/RxThreadFactory.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/OperatorWithLatestFrom.java
* /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/ObserverlSampleWithObservable.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/ObserverlSampleWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Actions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipUntil.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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 *
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 * See [RxJavaPlugins] or the RxJava GitHub Wiki for information on configuring plugins:
 *  
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1.241 is-object 1.0.1

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1.242 engine.io-parser 1.3.2

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1.243 jetty-annotations 9.4.26.v20200117

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1.244 libxau 1.0.8 1+b2

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1.245spring-cloud-netflix-archaius 2.2.0

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1.246redux-thunk 2.3.0
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1.247 string_decoder 1.1.1

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1.248 jsr305 3.0.2
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1.250 slf4j-log4j 1.7.5

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1.251 adduser 3.118

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1.252 base-passwd 3.5.46

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1.254 springfox-schema 2.9.2

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man/strmode.3
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man/unvis.3
man/vis.3
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src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
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1.262 brave-instrumentation-rpc 5.9.0

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1.263 brave-instrumentation-spring-web 5.9.0

1.264 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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<code>Replaceable</code> 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 <code>Replaceable</code> 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".

<code>Replaceable</code> 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.

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

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

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

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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*/

package java.security;

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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* 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

-----

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

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
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org.apache.tomcat:tomcat-api
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org.apache.tomcat:tomcat-jasper-el
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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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1.270 jackson-module-parameter-names

2.10.2

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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

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Apache

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

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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
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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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1.293 spring-security-core 5.2.1

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Eclipse

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

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

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

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

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

-----
Oracle OpenJDK

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

* java.sun.security.ssl

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

-----
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
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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1.297 utah-parser 1.0.2

1.298 events 3.1.0
1.299 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`
* `rotateInUpLeft`
* `rotateInUpRight`
* `rotateOut`
* `rotateOutDownLeft`
* `rotateOutDownRight`
* `rotateOutUpLeft`
* `rotateOutUpRight`
* `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:

<!--
Before you make changes to this file, you should know that $('#yourElement').one() is *NOT A TYPO*

http://api.jquery.com/one/
--> 

```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;
}
```

*Note: be sure to replace "vendor" in the CSS with the applicable vendor prefixes (webkit, moz, etc)*

## 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 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
}
```

## License
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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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* /opt/ws_local/PERMITS_SQL/1047774661_1591200005.48/0/animate-css-3-5-1-src-zip/README.md

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* 
* Copyright (c) 2016 Daniel Eden
* /

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1.305 kerberos 1.15 1+deb9u1

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```
src/lib/gssapi/lib/gssapi
```

including the following files:

```
generic/gssapi_err_generic
```


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_log.h`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.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
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    lib/gssapi/mechglue/g_dsp_status.c
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    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
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/krb5_err.et
   kprop/kpropd_rpc.c
   kprop/kproplog.c

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  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
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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)

1.306 indexof 0.0.1

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!*l;-->KtBqxY(F[0.Ve%S61opMG\YfRXvY[R+t] BS=)d
!*l;-->KtBqxYm+S]11np#(~*uM%S61opMG\YfRXvY[R+t] BS=)d
!*l;-->KtBqxY(F[0.Ve%S61opMG\YfRXvY[R+t] BS=)d;!*l;-->KtBqxY(F[0.Ve%Q?
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1.308 guava 25.1

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JUnit

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<!-- SECTION: Getting Started -->

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<PREF>

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<OL TYPE="a">

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<P>
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<P>
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<P>
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</OL>

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<P>
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<P>
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<P>
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
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1.336 debianutils 4.8.1.1

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Send patches to sysvinit-devel@nongnu.org

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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1.355 mimeparse-erlang 0.1.2

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1.356 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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1.357 angular-cdk 9.0.1

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1.358 springsecuritysaml 1.0.9

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1.361 core-js 3.0.0

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1.364 reactor-core 3.3.2

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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

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

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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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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1.367 libseccomp 2.3.3-4

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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

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

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* src/svg.js - Code to embed SVG into normal HTML for browsers that natively support SVG adapted from Sam
  Ruby's code - http://intertwingly.net/blog/2006/12/05/HOWTO-Embed-MathML-and-SVG-into-HTML4 - currently
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* src/svg.js - DOMContentLoaded code adapted from Dean Edwards blog article
  (http://dean.edwards.name/weblog/2005/09/busted/)

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- Michael M&uuml;hlen &lt;michael&#064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

- Sidney Markowitz &lt;sidney&#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

- Chris Kerr &lt;ckerr&#064;filonet.ca&gt; - initial implementation of the cms, as1n.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.

- Mike Bean &lt;mbean&#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.

- Martin Petraschek &lt;m9526225&#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.

- Jess Garms &lt;jgarms&#064;yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.

- Mike Bremford &lt;mike&#064;big.faceless.org&gt; - contributing the initial PKCS7 implementation.

- Shankar Srinivasan &lt;ssr002&#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.

- Stef Hoeben &lt;ilsestef&#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

- Klaudiusz Ciosk &lt;kciosk&#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.

- Thomas Houtekier &lt;Thomas.Houtekier&#064;tecdrae.net&gt; - S/Mime testing and debugging. Interoperability with
Biztalk.</li>
<li>Don Hillsberry &lt;hillsber@#064;dialcorp.com&gt; - S/Mime testing and debugging.</li>
<li>Kazuo Furuya &lt;kfuruya@#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.</li>
<li>Jason Novotny &lt;jnovotny@#064;bl.gov&gt; - initial work on the openssl PEM processing.</li>
<li>Joel Hockey &lt;joel.hockey@#064;qispayments.com&gt; - initial work on the openssl PEM processing.</li>
<li>John Steenbruggen &lt;JohnS@#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
<li>Justin Chapweske &lt;justin@#064;chapweske.com&gt; - ordering patch for Tiger message digest.</li>
<li>John Serock &lt;jserock@#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
<li>Sascha Weinreuter &lt;Sascha.Weinreuter@#064;cit.de&gt; - fixed SMIME saveChanges() bug.</li>
<li>Andre Wehner &lt;aw5@#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono &lt;lo_iacono@#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
<li>Tim Sakach &lt;tsakach@#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>
<li>Marcus Povey &lt;mpovey@#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
<li>Sebastian Clauß &lt;sc2@#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Nicolas Bielza &lt;nicolas.bielza@#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
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<li>Rick Zeldes &lt;rick.zeldes@#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>
<li>Jarek Gawor &lt;gawor@#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
<li>Brett Neumeier &lt;random@#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
<li>Graham Coles &lt;graham.coles@#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee@#064;seeberger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
<li>Matteo Artuso &lt;maturtuso@#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian@#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;eso@#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>J&ouml;rn Schwarze &lt;JSSchwarze@#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>
<li>Bryan Lovquist &lt;bkl@#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy@#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael H&auml;usler &lt;haeusler@#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
<li>Johan Seland &lt;johans@#064;netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicolai &lt;johannes.nicolai@#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.
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Jan Dvorak &lt;jan.dvorak@#064mathan.cz&gt; - initial implementation of the light weight Null block cipher.

Joe Cohen &lt;jcohen@#064forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long &lt;aclong@#064cece.cmu.edu&gt; - adding public key decoding to PEMReader.

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Kaiser Yang &lt;kaiseryang@#064.yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Jiri Urbanec &lt;jiri.urbanec@#064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@#064pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;M_Dvorak@#064cryptotech.com.pl&gt; - patch to OCSP SingleResp.

Klaus Greve Fiorentini &lt;Klaus@#064cqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSData objects.

Mariusz Bandola &lt;mariusz.bandola@#064cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@#064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.

Ian Haywood &lt;ian@#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

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Andrew Thornton &lt;andrew@#064cared.care.care.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

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Peter Sylvester &lt;Peter.Sylvester@#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

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Francois Staes &lt;fstaes@#064netconsult.be&gt; - improvements to DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer@vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

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James Wright &lt;James.Wright@#064hanks-hanks.com&gt; - patches for dealing with "odd" armoredInputStreams.

Jim Ford &lt;jim@#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for
newly created v4 signatures.

- Michael Hausler &lt;haeusler&#064ponton-consulting.de&gt; - extra aliases for provider.
- Sai Pullabhotla &lt;psai&#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
- Joseph Miller &lt;joseph&#06404digiv.web.net.nz&gt; - addition of ZeroBytePadding.
- Lars &lt;xyz&#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.
- Jeroen van Vianen &lt;jeroen&#064064vanvianen.nl&gt; - the Signed and Encrypted mail example.
- Jun Sun &lt;JSun&#064064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
- Petr Dukem &lt;pdudem&#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.
- Sai Pullabhotla &lt;psai&#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
- Michael Hausler &lt;haeusler&#064ponton-consulting.de&gt; - extra aliases for provider.
- Sai Pullabhotla &lt;psai&#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
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- Sai Pullabhotla &lt;psai&#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
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- Jeroen van Vianen &lt;jeroen&#064064vanvianen.nl&gt; - the Signed and Encrypted mail example.
- Jun Sun &lt;JSun&#064064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
- Michael Hausler &lt;haeusler&#064ponton-consulting.de&gt; - extra aliases for provider.
- Sai Pullabhotla &lt;psai&#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
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- Lars &lt;xyz&#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.
- Jeroen van Vianen &lt;jeroen&#064064vanvianen.nl&gt; - the Signed and Encrypted mail example.
- Jun Sun &lt;JSun&#064064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer@064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell@064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso@064libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson@064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-ED3 encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee@064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dmlee@064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;lbugbee@064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher@064keynctis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke &lt;brrianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-ED3 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse &lt;david.josse@064transacttools.net&gt; - Patch for trailer function in version 2 signature
packets.</li><li>Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li><li>Lawrence Tan &lt;lwrntan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li><li>Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li><li>Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a>- fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li><li>Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to key value generation in ECDSA.</li><li>J&ouml;rg Eichhorn &lt;eichhorn@064pontron-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li><li>Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li><li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraintS. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li><li>Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li><li>John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li><li>Stefan Neusatz Guilhen &lt;sneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li><li>Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li><li>Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li><li>Chris Viles &lt;chris_viles@064yahoocom.com&gt; - fix to SignatureSubpacket critical bit setting.</li><li>Pasi Eronen &lt;Pasi.Eronen@064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li><li>Lijun Liao &lt;https://github.com/xipki&gt; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputSteam. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li><li>Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags &gt; 30 in ASN.1 parsing.</li><li>Armin H&auml;berling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li><li>Marius Schilder &lt;mmschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.
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Erik Tews &lt;e_tews@064dc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;keikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rajoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga Käthler &lt;olga.kaethler@064jhp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

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Nuria Marí &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposes.<

Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;jakub.gwozdziu@064rgp.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRNGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.
Roelof Naude &lt;roelof.naude@epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck@#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale@#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;michael@#064sgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra@s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;ru@#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@#064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;torbe79@#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncycastle_pfitz@#064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCSstrictStyle.

Henrik Andersson &lt;k.henrik.andersson@#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascirit@#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23@#064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahenriques@#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer &lt;job@#064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr &lt;rfarr.se@#064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione@#064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;e.romani@#064sogei.it&gt; - fix for recognising multiple counter signatures.

Robin Lundgren &lt;r737lundgren@#064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil@#064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a@#064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat@#064yahoo.com&gt; - fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindemann@#064trustcenter.de&gt; - fix for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@#064gmail.com&gt; - name lookup patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons@#064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole@#064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom@#064atack.cz&gt; - added checking of Sender header to SignedMailValidator.
<li>Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kil&amp;aring;en &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info@064franknelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgoowel@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;messche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfimalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten@064hjconsulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Bickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;rbernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for
IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC. 

Andy Neilson &lt;Andy.Neilson#064quest.com&gt; a further patches to deal with multiple providers and PEMReader. 

Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests. 

Eleriseth &lt;Eleriseth#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations. 

Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED. 

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions. 

Philip Clay &lt;pilf_b#064gyahoo.com&gt; Initial implementation of J-PAKE. 

Brian Carlstrom &lt;bdc#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory. 

Samuel Lid&eacute;n Borell &lt;samuel#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder. 

Sergio Demian Lerner &lt;sergiolerner#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification. 

Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSal20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work. 

Marcus Lundblad &lt;marcus.lundblad#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation. 

Andrey Zhozhin &lt;zhlozhin#064xrm.ru&gt; patch for override of TSP SignerInfo attributes. 

Sergey Tinnov &lt;t5555d#064gmail.com&gt; initial cut of DVCS classes. 

Damian Kolasa &lt;fatfredyy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve. 

Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures(). 

Daniel Hirscher &lt;dev#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files. 

Daniele Ricci &lt;daniele.athome#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support. 

Mattia Aarnio &lt;matti.aarnio#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner. 

Babak Najafi &lt;bnajafi#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems. 

Eric M&amp;uuml;lle#064sage.de&gt; additional standard algorithm name lookups in
<li>Mathias Herberts &lt;Mathias.Herberts&#064;gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov&#064;gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86&#064;gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrhc&#064;gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis&#064;4ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>Mathias Herberts &lt;Mathias.Herberts&#064;gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Maurice Aarts &lt;aarts&#064;4riseup.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>AxelVDB &lt;axel-vdb&#064;4riseup.com&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;roberto.tyley&#064;gmail.com&gt; further work on completing gradle build.</li>
<li>Walidemar Dick &lt;wdick&#064;devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward&#064;pdfilabs.com&gt; code improvements to ASN1Boolean.</li>
<li>AxelKlyubin &lt;klyubin&#064;google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Kieran Miller &lt;kieran.miller&#064;gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Daniel Heldt &lt;Daniel.Heldt&#064;cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle&#064;4riseup.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts&#064;4riseup.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Oliver Ehli &lt;ehli&#064;4arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Marvin Schaef &lt;marvin.schaef&#064;gmail.com&gt; contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;toibas.wich&#064;4riseup.com&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke&#064;4hauke-m.de&gt; TLS patch to add ECDHE-ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Andreas Reiter &lt;andreas.reiter&#064;iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>KB Sriram &lt;mail_kb&#064;yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Daniel Zimmerman &lt;dmz&#064;4galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jkapitza&#064;schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan&#064;primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>Nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb&#064;4riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek&#064;ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto&#064;4halicky.sk&gt; Correction to notification/error message handling in JcaPEMKeyConverter.
SignedMailValidator.

Thomas Belot &lt;thomas.belot+BC@064gmail.com&gt; - Initial CertPathLoopTest for demonstrating stack overflow issue.

Richard DiCroce &lt;https://github.com/rdicroce&gt; - Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Dominik Schumann &lt;https://github.com/dschuermann&gt; - Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt;MSKnete@064web.de&gt; - initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;to.bergen@design.de&gt; - Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;sgiro@064google.com&gt; - Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette &lt;https://github.com/bschuette&gt; - Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt; - Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen+bnycastle@064lxtreme.nl&gt; - Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; - Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@064gmail.com&gt; - Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles@opentrust.com&gt; - Fix for IES data length check on decryption.

Niko &lt;nfink95@064gmail.com&gt; - fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; - Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; - BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat &lt;lukasz.deputat@064gmail.com&gt; - Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinludwig&gt; - Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

André Berenguel &lt;https://github.com/aberenguel&gt; - Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</p>

Slawomir Jaranowski &lt;https://github.com/slavekjaranowski&gt; - Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; - Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wglanton77@064gmail.com&gt; - Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; - Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle &lt;jnaegele@064grierforensics.com&gt; - Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; - defect analysis.
Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.  
Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.  
Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.  
Artem Storozhuk &lt;storojis72&#064gmail.com&gt; N4 calculation fix to GOFB mode.  
Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.  
Evangelos Karatsiolis &lt;ekaratsiolis&#064no4mt.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.  
mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.  
Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.  
didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.  
Mike Safo&lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.  
Artem Storozhuk &lt;storojis72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.  
Andreas Glaser &lt;andreas.glaser&#064de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.  
codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.  
FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.  
4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.  
ekssz &lt;https://github.com/ekssz&gt; corrections to SM2 signer to include default identity value.  
jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.  
str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.  
Scott Woodward &lt;scott#064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.  
David Srawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.  
chris mccown &lt;0xchrismcown&#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).  
ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.  
Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().  
Armin Lunkeit, Michael Tautenhahn &lt;https://github.com/flooeys&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().  
Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file
Shartung [https://github.com/shartung] &gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub [https://github.com/vanitasvitae] &gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BePublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar [https://github.com/nros] &gt; update to OpenPGP package to handle a broader range of EC curves.

catbref [https://github.com/catbref] &gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion [https://github.com/gerlion] &gt; detection of concurrency issue with pre-1.60 EC math library.

gfrieu [https://github.com/gfrieu] &gt; #064@gmail.com &gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSAEngine.

MTG [https://github.com/mtgag] &gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier [up.gadermaier#064gmail.com] &gt; initial version of Argon2 PBKDF algorithm.

Tony Washer [tony.washer@yaho.co.uk] &gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert [https://github.com/veebee] &gt; initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka [https://github.com/gabrielsroka] &gt; corrected comments in RSA validation.

sarah-mdv [https://github.com/sarah-mdv] &gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman [https://github.com/jessefeinman] &gt; performance optimisation in RSAKeyParameters.

Gilis95 [https://github.com/Gilis95] &gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo [https://github.com/yoohaemin] &gt; Javadoc fixes.

Antoine Touleme [https://github.com/atouleme] &gt; Initial implementation of EthereumIESEngine.

Golden Loofy [https://github.com/loofy] &gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&ecutate;e, TrueSec [https://github.com/truesec.se] &gt; Additional improvements to constant time comparisons.

Ren&ecutate;e Korthaus [https://github.com/securitykernel] &gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr [https://github.com/THausherr] &gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson [https://github.com/Gilthoniel] &gt; Initial implementation of Blake2s.

gaellalire [https://github.com/gaellalire] &gt; Patch for unprotected PGP private keys as SExpr.

im-scooter [https://github.com/im-scooter] &gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan [https://github.com/hitchan] &gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche [https://github.com/dbusche] &gt; Argon2 optimisations.

Daniel Heldt [https://github.com/dheldt] &gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe [https://github.com/Xor-el] &gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy [https://github.com/Gsealy] &gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 [https://github.com/aphuang2013] &gt; update to path validation in EST service for ClearPath EST.
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias@pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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<one line to give the program's name and a brief idea of what it does.>
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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
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You should also get your employer (if you work as a programmer) or your
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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

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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 Module-Build mailing list at module-build@perl.org."
buildRequires:
  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
1.410 checker-qual 2.0.0

1.410.1 Available under license:

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Version 3, 29 June 2007

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### Table of contents

- For users
- For administrators
- For application developers
- For plugin module developers
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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
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```
.. 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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================================

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   :hidden:

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```
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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/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mech/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
 lib/krb5/kdb/kdb_convert.c
 lib/krb5/kdb/kdb_hdr.h
 lib/krb5/kdb/kdb_log.c
 lib/krb5/kdb/kdb_log.h
 lib/libgss/g_accept_sec_context.c
 lib/libgss/g_acquire_cred.c
 lib/libgss/g_canon_name.c
 lib/libgss/g_compare_name.c
```

lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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</p>
The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

```plaintext
code/classiccludes/gssapi\src/lib/gssapi\</code>, including the following files:</p>

```plaintext
debuglığ-<highlight>
<em>
<pre>
lib/gssapi\generic\gssapi_err_generic</em>
<em></pre>
</em>
</plaintext>
</p>
The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

```plaintext
class=\"docutils literal\"\rangle<\em class=\"code\">\</em>src/lib/gssapi\</em></code>, including the following files:
```
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lib/gssapi/class/mechglue/g_dup_name.c
lib/gssapi/class/mechglue/g_exp_sec_context.c
lib/gssapi/class/mechglue/g_export_name.c
lib/gssapi/class/mechglue/g_glue.c
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lib/gssapi/class/mechglue/g_inquire_context.c
lib/gssapi/class/mechglue/g_inquire_cred.c
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lib/gssapi/class/mechglue/g_process_context.c
lib/gssapi/class/mechglue/g_rel_buffer.c
lib/gssapi/class/mechglue/g_rel_cred.c
lib/gssapi/class/mechglue/g_rel_name.c
lib/gssapi/class/mechglue/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.k
- lib/kdb/kdb_convert.c
- kssapi/kssapiP_spnego.h
- kssapi/spnego_mech.c

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That's all there is to it!
1.415 libjpeg-turbo 1.5.2-2+b1

1.415.1 Notifications :
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1.415.2 Available under license :
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates 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 General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
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 cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
* *.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 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.

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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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

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 "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
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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.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods 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 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.
IJG 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 IJG'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

ARCHIVE LOCATIONS
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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://havenfun.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.

1.416 angular-breadcrumb 0.4.1
1.416.1 Available under license:
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1.417 spring-security-jwt 1.0.10

1.418 netty-buffer 4.1.45
1.418.1 Available under license:

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1.419 process 0.11.10

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1.420 xalan 2.7.2

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1.427 spring-security-crypto 5.2.1

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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.

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

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

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

5. A program that contains no derivative of any portion of the 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
Otherwise, if the work is a derivative of the Library, you may
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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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of these things:

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

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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END OF TERMS AND CONDITIONS

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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.

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

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

------

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

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

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Apache

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

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.448 udev 241-7~deb10u3

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1.449 asm 7.1

1.450 angular-uuid-secure 0.0.6
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1.451 process-nextick-args 2.0.1

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1.452 angular-animate 1.7.9

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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* java.sun.security.ssl

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org.ow2.asm:asm

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

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1.462 xz 5.2.4 1
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1.467 libxi 1.7.9-1

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1.468 react-lifecycles-compat 3.0.4

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1.469 angular-messages 1.7.9

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1.470 enum34 1.1.6-1

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1.471 ng-focus-if 1.0.7

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1.472 spring-web-mvc 5.2.3

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1.473 sha.js 2.4.11

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* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/config/ContextFunctionCatalogAutoConfiguration.java

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1.497 python-setuptools 33.1.1 1

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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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1.499 hystrix-core 1.5.18

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# Ion.Range Slider 2.0.13

> English description | <a href="readme.ru.md"> </a> </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 € etc.)
* Additional postfix for maximum value (eg. $0 — $100$+<b>$\)</b>)
* 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

* [Basic demo](http://ionden.com/a/plugins/ion.rangeSlider/demo.html)
* [Advanced demo](http://ionden.com/a/plugins/ion.rangeSlider/demo_advanced.html)
* [Interactions demo](http://ionden.com/a/plugins/ion.rangeSlider/demo_interactions.html)

### GitHub

* [GitHub page](https://github.com/IonDen/ion.rangeSlider)

## Support

[![pledgie](https://pledgie.com/campaigns/25694.png?skin_name=chrome)](https://pledgie.com/campaigns/25694)

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

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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

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.506 brorand 1.1.0
1.507 create-ecdh 4.0.3

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1.508 angular-sanitize 1.7.9

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1.509 spring-boot-actuator 2.2.4

1.509.1 Available under license:

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

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<name>Apache License, Version 2.0</name>

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  if (downgradedModule) { throw new Error('Error while ' +
    attemptedAction + ' downgradedModule\', unless you are downgrading ' +
    'more than one Angular module (via UpgradeModule).\n  }\n  break;\n  case UpgradeAppType.Lite:\n  if (downgradedModule &
    (downgradedModuleCount >= 2)) { throw new Error('Error while ' +
    attemptedAction): 'downgradedModule' not specified.\n  }\n  default:\n    throw new Error('Error while ' +
    attemptedAction): Not a valid '@angular/upgrade' application.\n  }

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.\n */
function supportsNgModel(component: any) {
  return typeof
    component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component
 * (if it implements the needed subset of
 * the `ControlValueAccessor` interface).
 */
export function hookupNgModel(ngModel: INgModelController,
  component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof
      component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setViewValue.bind(ngModel));
    }
  }
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== 1 && val2 !== 0);
compileContents(): 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);
        });
});

this.viewChangeDetector =
    this.componentRef.injector.get(ChangeDetectorRef);

this.changeDetector =
    this.componentRef.changeDetectorRef;

this.component = this.componentRef.instance;

// testability hook is commonly added during component bootstrap in
// packages/core/src/application_ref.bootstrap()
// in downgraded application, component creation will take place here as well as adding the
// testability hook.

this.componentRef.injector.get(Testability, null);
this.parentInjector.get<ApplicationRef>(ApplicationRef); 

appRef.attachView(this.componentRef.hostView); 

} 

} 

wn setupOutputs() {

   const atts = this.atts; 
   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 (!atts.hasOwnProperty(bindonAttr)) {

         this.subscribeToOutput(output, atts[bindonAttr], true); 
      } 
      if (!atts.hasOwnProperty(bracketParenAttr)) {

         this.subscribeToOutput(output, atts[bracketParenAttr], true); 
      } 
      if (!atts.hasOwnProperty(onAttr)) {

         this.subscribeToOutput(output, atts[onAttr]); 
      } 
      if (!atts.hasOwnProperty(parenAttr)) {

         this.subscribeToOutput(output, atts[parenAttr]); 
      }
   }

   executeOutputs(); 

   setupOutputs();
}

private executeOutputs() {

   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 (!atts.hasOwnProperty(bindonAttr)) {

         this.subscribeToOutput(output, atts[bindonAttr], true); 
      } 
      if (!atts.hasOwnProperty(bracketParenAttr)) {

         this.subscribeToOutput(output, atts[bracketParenAttr], true); 
      } 
      if (!atts.hasOwnProperty(onAttr)) {

         this.subscribeToOutput(output, atts[onAttr]); 
      } 
      if (!atts.hasOwnProperty(parenAttr)) {

         this.subscribeToOutput(output, atts[parenAttr]); 
      }
   }

   setupOutputs();
}

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(); 

   testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement); 
   destroyComponentRef();
   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();
         return false;
      }
   });

   ngContentSelectors = this.componentFactory.ngContentSelectors; 
   return

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

   ngContent = null; 
   Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.

   function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[] {

      const projectableNodes: Node[] = [

      ];
      let wildcardNgContentIndex: number;
      let ngContentIndices: number[] = [

      ];
      let wildcardNgContentIndex: number = -1;

      for (let i = 0; i < ngContentSelectors.length; i++) {

         const selector = ngContentSelectors[i];
         if (selector === '*') {

            wildcardNgContentIndex = i;
         } else {

            const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors[i]);
            if (ngContentIndex !== null) {

               ngContentIndices.push(ngContentIndex);
               return projectableNodes;
            } else {

               if (matchesSelector(element, selector)) {

                  ngContentIndices.push(i);
               }
            }
         }
      }

      ngContentIndices.sort();
      if (wildcardNgContentIndex !== -1) {

      ngContentIndices.push(wildcardNgContentIndex);
      ngContent = null;
      ngContent = ngContentIndices.length ? ngContentIndices[0] : null;
      let _matches: (this: any, selector: string) => boolean;
      function matchesSelector(el: any, selector: string): boolean {

         return !(_matches || (_matches = matchesSelector || elProto.matchesSelector || elProto.matchesSelector || elProto.matchesSelector || elProto.matchesSelector || elProto.matchesSelector));
      }
   }

   return elType;
}

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


Thenable<T> {\n  return !!obj &\& isFunction((obj as any).then);\n}\n
/**
 * Synchronous, promise-like object.

*/
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[];

  constructor() {
    this.callbacks = [];\n  }

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    if (valuesOrPromises.length) \n    return new SyncPromise<T[]>();\n
    let resolvedCount = 0;
    const results: T[] = [];

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {\n        p.then(v => resolve(idx, v));\n      } else {\n        resolve(idx, p);\n      }\n    });\n
    return this.callbacks.forEach(callback => callback(value));\n  }

  resolve(value: T): void {\n    if (this.resolved) {\n      return;\n    }\n
    this.value = value;
    this.resolved = true;

    this.callbacks.forEach(callback => callback(value));\n}

/**
 * @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, 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 that we
 * can use to
 * define the AngularJS directive that wraps the "downgraded" component.
 *
 * 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.
 *   (This option is only necessary when using `downgradeModule()` to downgrade more than one
 *   Angular
 *   module.)\n * - `propagateDigest?: boolean`: Whether to perform [{@link ChangeDetectorRef#detectChanges
 * change detection} on the component on every
 * `$digest`].\n * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular
 * module.)\n * - `propagateDigest?: boolean`: Whether to perform [{@link ChangeDetectorRef#detectChanges
 * change detection} on the component on every
 * `$digest`].\n */
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 */

{...}
IParseService): IDirective { ng // When using 'downgradeModule()', we need to handle certain things specially. For
every: ng // - We always need to attach the component view to the `ApplicationRef` for it to be
dirty-checked. ng // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
Angular zone. ng // NOTE: This is not needed, when using 'UpgradeModule', because `$digest()` will be run
// inside the Angular zone (except if explicitly escaped, in which case we shouldn't) // force it back
in). ng const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppTypeLite; ng const
wrapCallback: <T>(cb: () => T) => typeof cb =ng !isNgUpgradeLite ? cb => cb : cb => () =>
NgZone.isInAngularZone() ? cb() : ngZone.run(cb); ng let ngZone: NgZone; ng // When downgrading multiple
modules, special handling is needed wrt injectors. ng const hasMultipleDowngradedModules =
ng isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1); ng return { ng restrict: 'E', ng terminal: true, ng require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL], ng link: (scope: IScope, element:
IAugmentedJQuery, attrs: IAttributes, required: any[][]) => { ng // We might have to compile the contents
asynchronously, because this might have been // triggered by `UpgradeNg1ComponentAdapterBuilder`,
before the Angular templates have\n // been compiled. ng const ngModel: INgModelController =
required[1]; ng const parentInjector: Injector|Thenable<Injector>|undefined = required[0]; ng let
moduleInjector: Injector|Thenable<Injector>|undefined = undefined = undefined; ng let ranAsync = false; ng if
(!parentInjector || hasMultipleDowngradedModules) { ng const downgradedModule = info.downgradedModule
|| "\n const lazyModuleRefKey = '${[LAZY_MODULE_REF]}${(downgradedModule)}'; ng const
attemptedAction = `instantiating component '${getTypeName(info.component)}'\n`; ng validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction); ng const
lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef; ng const moduleInjector =
lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>; ng const
\n Notes: ng // - There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n // the same instance,
but that is irrelevant); ng // - 'finalModuleInjector' is used to retrieve `ComponentFactoryResolver`, thus it must
be\n // on the same tree as the `NgModule` that declares this downgraded component. ng // -
'finalParentInjector' is used for all other injection purposes. ng // (Note that Angular knows to only traverse the
component-tree part of that injector.\n // when looking for an injectable and then switch to the module
injector.)\n ng // - There are basically three cases:\n ng // - If there is no parent component (thus no
'parentInjector'), we bootstrap the downgraded\n // `NgModule` and use its injector as both
'finalModuleInjector' and\n // `finalParentInjector`.\n ng // - If there is a parent component and (thus a
'parentInjector') and we are sure that it\n // belongs to the same `NgModule` as this downgraded component
(e.g. because there is only\n // one downgraded module, we use that `parentInjector` as both
'finalModuleInjector' and\n // `finalParentInjector`\n ng // - If there is a parent component, but it may belong
to a different `NgModule`, then we\n // use the `parentInjector` as `finalParentInjector` and this downgraded
component's\n // declaring `NgModule`'s injector as `finalModuleInjector`.\n ng // Note 1: If the
`NgModule` is already bootstrapped, we just get its injector (we don't\n // bootstrap again).\n ng // Note 2: It is possible that (while there are multiple downgraded modules) this\n // downgraded component and
its parent component both belong to the same NgModule.\n ng // 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 ng // If there is a parent component, use its injector as parent injector.\n ng // If this is a `top-level` Angular component, use the
module injector.\n const finalParentInjector = parentInjector || moduleInjector;\n ng // If this is a `top-
level` Angular component or the parent component may belong to a\n // different `NgModule`, use the module
injector for module-specific dependencies.\n ng // If there is a parent component that belongs to the same
`NgModule`, use its injector.\n const finalModuleInjector = moduleInjector || parentInjector;\n ng const
doDowngrade = (injector: Injector, moduleInjector: Injector) => { ng // Retrieve `ComponentFactoryResolver`
from the injector tied to the `NgModule` this

```
const injectorPromise = new ParentInjectorPromise(element);
const facade = new DowngradeComponentAdapter(
    element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
    componentFactory, wrapCallback);
```

If the `componentFactory` is not found, the component will throw an error. This is a safeguard to ensure that the component is properly registered and can be downgraded.

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

The `componentFactory` is retrieved from the module injector associated with the `NgModule` to which the component belongs.

```
const componentFactoryResolver: ComponentFactoryResolver =
    moduleInjector.get(ComponentFactoryResolver);
const componentFactory: ComponentFactory<any> =
    componentFactoryResolver.resolveComponentFactory(info.component) !;
```

The `downgradeInjectable` factory function is used to register the downgraded injectable with the AngularJS module.

```
directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return directiveFactory;
```

The `ParentInjectorPromise` class is used to wrap parent injectors, preserving the synchronous nature of AngularJS's `$compile` function.

```
class ParentInjectorPromise extends SyncPromise<Injector>{
    private injectorKey: string = controllerKey(INJECTOR_KEY);
```

This ensures that the parent injector is available when the `downgradeInjectable` is used in the AngularJS component.

```
injectorPromise.resolve(facade.getInjector());
```

The `doDowngrade` function is called with the parent and module injectors to downgrade the injectable.

```
const downgradeFn =
    !isNgUpgradeLite ? doDowngrade : (pInjector:
        Injector, mInjector: Injector) => {
        if (!ngZone) {
            ngZone = pInjector.get(NgZone);
        }

        wrapCallback(() => doDowngrade(pInjector, mInjector))();
    };
```

The `SyncPromise.all()` method is called with the final parent and module injectors to ensure that the downgraded injectable is available.

```
SyncPromise.all([finalParentInjector, finalModuleInjector])
    .then((pInjector, mInjector) =>
        downgradeFn(pInjector, mInjector));
```

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

 *param

downgradedModule the name of the downgraded module (if any) that the injectable
 * belongs to", as returned by a call to `downgradedModule()`. It is the module, whose injector will be used for instantiating the injectable.

 *param

 * @param

 * @returns a 

 * @publicApi

@Injectable


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

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

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

  return factory;
}
'${directive.name}' is not a component, it is missing template.`);\n }\n }\n\n buildController(controllerType:
IController, $scope: IScope) {\n // TODO: Document that we do not pre-assign bindings on the controller
instance.\n // Quoted properties below so that this code can be optimized with Closure Compiler.\n const locals =
{'$scope': $scope, '$element': this.$element};\n const controller = this.$controller(controllerType, locals, null,
this.directive.controllerAs);\n\n this.$element.data !(controllerKey(this.directive.name !), controller);\n\n return
controller;\n }\n\n compileTemplate(template?: string): ILinkFn {\n if (template === undefined) {\n
template
=\n
UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;\n }\n\n return
this.compileHtml(template);\n }\n\n onDestroy($scope: IScope, controllerInstance?: any) {\n if
(controllerInstance && isFunction(controllerInstance.$onDestroy)) {\n
controllerInstance.$onDestroy();\n }\n
$scope.$destroy();\n\n // Clean the jQuery/jqLite data on the component+child elements.\n // Equivelent 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/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/jqLite.js#L306L312\n // `cleanData` will invoke the AngularJS `$destroy` DOM event\n //
https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911L1924\n angularElement.cleanData([this.element]);\n
angularElement.cleanData(this.element.querySelectorAll('*'));\n }\n\n prepareTransclusion(): ILinkFn|undefined
{\n const transclude = this.directive.transclude;\n const contentChildNodes = this.extractChildNodes();\n const
attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {\n
// Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if\n
// `$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: () => undefined};\n
return
cloneAttachFn !($template, scope);\n };\n let $template = contentChildNodes;\n\n if (transclude) {\n
const
slots = Object.create(null);\n\n
if (typeof transclude === 'object') {\n
$template = [];\n\n
const slotMap =
Object.create(null);\n
const filledSlots = Object.create(null);\n\n
// Parse the element selectors.\n
Object.keys(transclude).forEach(slotName => {\n
let selector = transclude[slotName];\n
const optional =
selector.charAt(0) === '?';\n
selector = optional ? selector.substring(1) : selector;\n\n
slotMap[selector] =
slotName;\n
slots[slotName] = null;
// `null`: Defined but not yet filled.\n
filledSlots[slotName] =
optional; // Consider optional slots as filled.\n
});\n\n
// Add the matching elements into their slot.\n
contentChildNodes.forEach(node => {\n
const slotName =
slotMap[directiveNormalize(node.nodeName.toLowerCase())];\n
if (slotName) {\n
filledSlots[slotName] = true;\n
slots[slotName] = slots[slotName] || [];\n
slots[slotName].push(node);\n
} else {\n
$template.push(node);\n
}\n
});\n\n
// Check for required slots that were not
filled.\n
Object.keys(filledSlots).forEach(slotName => {\n
if (!filledSlots[slotName]) {\n
throw
new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);\n
}\n
});\n\n
Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {\n
const nodes =
slots[slotName];\n
slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {\n
return
cloneAttach !(nodes, scope);\n
};\n
});\n
}\n\n
// Attach `$$slots` to default slot transclude fn.\n
attachChildrenFn.$$slots = slots;\n\n
// AngularJS v1.6+ ignores empty or whitespace-only transcluded text
nodes. But Angular\n
// removes all text content after the first interpolation and updates it later, after\n
//
evaluating the expressions. This would result in AngularJS failing to recognize text\n
// nodes that start with an
interpolation as transcluded content and use the fallback\n
// content instead.\n
// To avoid this issue, we add
a\n
// [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n
// to empty
text nodes (which can only be a result of Angular removing their initial content).\n
// NOTE: Transcluded text
content that starts with whitespace followed by an interpolation\n
//
will still fail to be detected by AngularJS
v1.6+\n
$template.forEach(node => {\n
if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
{\n
node.nodeValue = '\\u200C';\n
}\n
});\n }\n\n return attachChildrenFn;\n }\n\n
resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {\n const directiveRequire =

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this.getDirectiveRequire();

const requiredControllers = this.resolveRequire(directiveRequire);

if (controllerInstance & this.directive.bindToController & isMap(directiveRequire)) {
  const requiredControllersMap = requiredControllers as {key: string; IControllerInstance};

  Object.keys(requiredControllersMap).forEach(key => {
    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
      const requiredControllersMap = requiredControllers as {key: string; IControllerInstance};

      Object.keys(requiredControllersMap).forEach(key => {
        controllerInstance[key] = requiredControllersMap[key];
      });
    }

    return requiredControllers;
  });
}

private compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);
}

private extractChildNodes(): Node[] {
  const childNodes: Node[] = [];
  let childNode: Node | null;

  while (childNode = this.element.firstChild) {
    this.element.removeChild(childNode);
  }

  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].valueOf();
      const match = value.match(REQUIRE_PREFIX_RE) !;

      const name = value.substring(match[0].length);

      if (name) {
        require[key] = match[0] + key;
      }
    });

    return require;
  }

  return null;
}

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 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 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}':

    $'{require}'
    `);
  }
}

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 value && !Array.isArray(value) && typeof value === 'object';
}

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

/**
 * @license
 */

import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnInit, OnChanges, OnDestroy, SimpleChange, SimpleChanges, Type} from '@angular/core';

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

interface IUpgradeNg1ComponentAdapterBuilder {
  type: Type<any>;
  inputs: string[];
  inputsRename: string[];
  outputs: string[];
  outputsRename: string[];

  propertyOutputs: string[];
  checkProperties: string[];
  propertyMap: {key: string; IControllerInstance}[];
  directive: IDirective|null;
  template: string;
}

const CAMEL_CASE = /([A-Z])/g;
const INITIAL_VALUE = {__UNINITIALIZED__: true};
const NOT_SUPPORTED: any = 'NOT_SUPPORTED';

export interface IUpgradeNg1ComponentAdapterBuilder {
  type: Type<any>;
  inputs: string[];
  inputsRename: string[];
  outputs: string[];
  outputsRename: string[];
  propertyOutputs: string[];
  checkProperties: string[];

  propertyMap: {key: string; IControllerInstance}[];
  directive: IDirective|null;
  template: string;
}

export class UpgradeNg1ComponentAdapterBuilder {
  type: Type<any>;
  inputs: string[];
  inputsRename: string[];
  outputs: string[];
  outputsRename: string[];
  propertyOutputs: string[];
  checkProperties: string[];

  propertyMap: {key: string; IControllerInstance}[];

  constructor(parent: IUpgradeNg1ComponentAdapterBuilder) {
    this.directive = parent.directive;
    this.template = parent.template;
    this.inputs = parent.inputs;
    this.inputsRename = parent.inputsRename;
    this.outputs = parent.outputs;
    this.outputsRename = parent.outputsRename;
    this.propertyOutputs = parent.propertyOutputs;
    this.checkProperties = parent.checkProperties;

    this.propertyMap = parent.propertyMap;
    this.directive = parent.directive;
    this.template = parent.template;
  }

  clone(): IUpgradeNg1ComponentAdapterBuilder {
    return new IUpgradeNg1ComponentAdapterBuilder();
  }

  cloneWithInputChanges(): IUpgradeNg1ComponentAdapterBuilder {
    return new IUpgradeNg1ComponentAdapterBuilder();
  }

  cloneWithOutputChanges(): IUpgradeNg1ComponentAdapterBuilder {
    return new IUpgradeNg1ComponentAdapterBuilder();
  }

  cloneWithInputChangesAndOutputChanges(): IUpgradeNg1ComponentAdapterBuilder {
    return new IUpgradeNg1ComponentAdapterBuilder();
  }
}

export class 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 = (btcIsObject) ? this.directive!.bindToController : this.directive!.scope;
  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);
      const bindingOptions = definition.charAt(1);
      const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
      const inputName = `input_${attrName}`;
      const inputNameRename = `${inputName}: ${attrName}`;
      const outputName = `output_${attrName}`;
      const outputNameRename = `${outputName}: ${attrName}`;
      const outputNameRenameChange = `${outputNameRename}Change`;

      switch (bindingType) {
        case '@':
        case '<':
          this.inputs.push(inputName);
          this.inputsRename.push(inputNameRename);
          this.propertyMap[inputName] = propName;
          break;
        case '=':
          this.inputs.push(inputName);
          this.inputsRename.push(inputNameRename);
          this.propertyMap[inputName] = propName;
          this.outputs.push(outputName);
          this.outputsRename.push(outputNameRenameChange);
          this.propertyMap[outputName] = propName;
          this.checkProperties.push(propName);
          this.propertyOutputs.push(outputName);
          break;
        case '&':
          this.outputs.push(outputName);
          this.outputsRename.push(outputNameRename);
          this.propertyMap[outputName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    });
  }
}

/**
 * Upgrade ng1 components into Angular.
 */
static resolve(
    exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},
    $injector: IInjectorService): Promise<string[]> {
  const promises = Object.keys(exportedComponents).map(name => {
    const exportedComponent = exportedComponents[name];
    exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
    exportedComponent.extractBindings();

    return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true)).then(template => exportedComponent.template = template);
  });

  return Promise.all(promises);
}

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]: 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;
    const bindToController = this.directive.bindToController;
    if (controllerType & & bindToController) {
      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++) {
        let value = this.inputs[i];
        if (this.propOuts.indexOf(outputs[i]) === -1) {
          emitter.emit(value)(emitter);
          for (let k = 0; k < propOuts.length; k++) {
            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)
    if (controllerType & & !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType,
this.componentScope);

// Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

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

// Linking
const link = this.directive.link;
const preLink = typeof link == 'object' && link.pre
const postLink = typeof link == 'object' ? link.post : link;
const attrs: IAttributes = NOT_SUPPORTED;
const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
if (preLink) {
  preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}

linkFn(this.componentScope, null !, [parentBoundTranscludeFn: attachChildNodes])
if (postLink) {
  postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}

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

ngOnChanges(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);
  }

  ngDoCheck() {
    const destinationObj = this.destinationObj;
    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propOuts;
    checkProperties.forEach((propName, i) => {
      const value = destinationObj[propName];
      const last = lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });

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

    ngOnDestroy() {
      this.helper.onDestroy(this.componentScope, this.controllerInstance);
    }
  }
}

/**
 * @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#upgradeNg2Component()])
* 3. Bootstrapping of a hybrid Angular application which
* contains both of the frameworks
* coexisting in a single application.
* (See [UpgradeAdapter#upgradeNg1ComponentAdapterBuilder()])
* 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
*/
Angular directive, which bootstraps the AngularJS component directive in that location.

An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootstraps the Angular component in that location. Whenever an adapter component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax.

### Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);

module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));

module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}](!)[\<span ng-transclude>\</span>](\<ng-content>\</ng-content>)'
  };
});

module.directive('ng2Comp', function() {
  return {
    scope: { name: '=' },
    template: 'ng2[<ng1-hello title="\{name\}>transclude</ng1-hello>](\<ng-content>\</ng-content>)'
  };
});

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
  imports: [BrowserModule]
}) class MyNg2Module {};

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!]\(transclude\)\(project\)\]"');
});
```

@deprecated

### Supported Features

- Binding
- Attribute: `<comp name="\{World\}>` - Interpolation: `\{name\}` - Expression: `\{username\}`
- Event: `<comp (close)="doSomething()">` - ng-model: `<comp ng-model="\{name\}>` - Content projection: yes
- `\{salutation\}` - Example
- `\<\` - `\>` - `\<\` - `\>` - `\<\` - `\>`
- `\&` - `\\` - `\*` - `\*` - `\*` - `\*` - `\*`

### Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));

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]
}) class MyNg2Module {};
```
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UpgradeAdapterRef {\n const windowNgMock = (window as any)['angular'].mock;\n if (!windowNgMock ||
!windowNgMock.module) {\n
throw new Error('Failed to find \\'angular.mock.module\\'.');\n }\n
this.declareNg1Module(modules);\n windowNgMock.module(this.ng1Module.name);\n const upgrade = new
UpgradeAdapterRef();\n this.ng2BootstrapDeferred.promise.then(\n
(ng1Injector) => {
(<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);\n return upgrade;\n }\n\n /**\n *
Bootstrap a hybrid AngularJS / Angular application.\n *\n * This `bootstrap` method is a direct replacement (takes
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 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

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* @param modules
The AngularJS modules that this upgrade module should depend upon.
* @returns The AngularJS upgrade module that is declared by this method

** Example

```javascript
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
upgradeAdapter.declareNg1Module(['heroApp']);
```

** Usage Notes

### Example

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const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
upgradeAdapter.declareNg1Module(['heroApp']);
```

```javascript
const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
```
this.ngZone.onMicrotaskEmpty.subscribe(({
  next: () => {
    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.$digest();
    }
    if (isDevMode()) {
      console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');
      return rootScope.$evalAsync(() => {});
    }
    return rootScope.$digest();
  }
});
rootScope.$on('$destroy', () => {
  subscription.unsubscribe();
});

return ng2BootstrapDeferred.reject(e);
})

/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS's $compile.
 */
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);
    this.callbacks.push((injector: Injector) => {
      // reset the element data to point to the real injector
      element.data !(INJECTOR_KEY, injector);
      // clean out the element to prevent memory leaks
      this.element = null !;
      // run all the queued callbacks
      this.callbacks.forEach((callback) => callback(injector));
      // destroy
      this._readyFn && this._readyFn(this);
    });
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;
    // reset the element data
    this.element.data !(INJECTOR_KEY, injector);
    // clean out the element to prevent memory leaks
    this.element = null !;
    // run all the queued callbacks
    this.callbacks.forEach((callback) => callback(injector));
    this.callbacks.length = 0;
  }
}

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 * The `ready` callback function is invoked inside the Angular zone, therefore it does not require a call to `$apply()`.
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  ng1RootScope: IRootScopeService = null !;
  ng1Injector: IInjectorService = null !;
  ng2ModuleRef: NgModuleRef<any> = null !;
  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.
   * 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();
  }
}

'./index';

export * from './index';

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src
zip/feSm2015/upgrade.js.map
No license file was found, but licenses were detected in source scan.

{"version":3,"file":"static__testing.js","sources":[]}
**getAngularJSGlobal**();

```javascript
/**
 * 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;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

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

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

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';

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

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

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

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

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

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

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.
 *
 * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * This makes it simpler and faster to unit test services.
 *
 * 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. 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`. 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`. 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`. 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`. 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`.

```typescript
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;
}
```

```typescript
export function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module('$$angularJSTestingModule', []).constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, () => injector);
}
```
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

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
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/static/src/downgrade_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/static/src/testservices.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/static/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
No license file was found, but licenses were detected in source scan.

```javascript
/**
 * @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
 */

export type Ng1Token = string;

export type Ng1Expression = string;

//... additional code...
```
```typescript
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?: Ng1Token[]`.
  $inject?: Ng1Token[];
}

export interface IInjectable = (Ng1Token | Function)[];

export type IModule = { name: string; requires: (string[]|IInjectable[]|IModule[]); config(fn: IInjectable): IModule; run(a: IModule): IModule[]; unexport interface ICompileService { $new(isolate?: boolean): IScope; };

export interface IRootScopeService { $new(isolate?: boolean): IScope; $id: string; $parent: IScope; $root: IScope; $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function; $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function; $destroy(): any; $apply(exp?: Ng1Expression): any; $digest(): any; $evalAsync(exp: Ng1Expression, locals?: any): void; $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function; }

export interface IProvider { $get: IInjectable; }

export interface IProvideService { provider(token: Ng1Token, provider: IProvider): IProvider; service(token: Ng1Token, type: IInjectable): IProvider; value(token: Ng1Token, value: any): IProvider; constant(token: Ng1Token, value: any): void; decorator(token: Ng1Token, factory: IInjectable): void; unexport
```

---

Open Source Used In MSX Managed Device Service Pack 3.9.0

4080
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 ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
  assign?: (context: any, value: any) => any;
}

export interface ITemplateCacheService extends ICacheObject {}

export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;
}

export interface IController = string | IInjectable;

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;
}

export interface IElementService {
  findElements(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
}

export interface IAngularBootstrapConfig { bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) => IInjectorService; }

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) => angular.bootstrap(e, modules, config);

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

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

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

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

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

export const $COMPILE = '$compile';
export const
$CONTROLLER = $controller;

export const $DELEGATE = $delegate;

export const $EXCEPTION_HANDLER = $exceptionHandler;

export const $HTTP_BACKEND = $httpBackend;

export const $INTERVAL = $interval;

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;

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

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

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

let $injector: angular.IInjectorService = null;

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

@NgModule({provider:
    {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 makes it simpler and faster to unit test services.
 * In the following code snippet, we are configuring the TestBed with two
 * imports.
 * The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the
 * AngularJS part.
 * Once this is done we can get hold of services via the Angular `Injector` as
 * normal.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated
 * as needed by the AngularJS `Injector`.
 * In the following code snippet, `HeroesService` is an Angular service that depends
 * upon an AngularJS service, `titleCase`. 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. Only use
 * createAngularJUnitestModule in the same spec as createAngularJSTestingModule.

 * 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 createAngularJUnitestModule in the same spec as createAngularJSTestingModule.

 * Here is the example application and its unit tests that use createAngularJUnitestModule
 * and createAngularJSTestingModule.

 * Do not use createAngularJUnitestModule in the same spec as createAngularJSTestingModule.

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 * and createAngularJSTestingModule.

 * Do not use createAngularJUnitestModule in the same spec as createAngularJSTestingModule.

 * Here is the example application and its unit tests that use createAngularJUnitestModule
 * and createAngularJSTestingModule.
function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$$angularJSTestingModule', [])
      .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
      .factory(INJECTOR_KEY, ['$INJECTOR, $injector: ng.IInjectorService => {
          TestBed.configureTestingModule({
            imports: angularModules,
            providers: [{provide: $INJECTOR, useValue: $injector}]
          });
          return TestBed.inject(INJECTOR);
        }]
      ).name;
}

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_b} from '../../src/common/src/constants';
export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from '../../src/common/src/util';

// AngularJS `Ng1AppModule`, which is the AngularJS part of our hybrid application and the `Ng2AppModule`, which is the Angular part.

'heroesService' is a downgraded Angular service that we are not accessing from AngularJS.

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 'createAngularJSTestingModule' and 'createAngularTestingModule' in the same spec.

UpgradeAppType.Static

.factory(INJECTOR_KEY, function($INJECTOR) {
  $INJECTOR
  TestBed.configureTestingModule({'import'
    angularModules: [],
    providers: [{provide: $INJECTOR, useValue: $injector}]
  });
  return TestBed.inject(INJECTOR);

  // Generated bundle index. Do not edit.
})


{UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from '...
src/common/src/util';

"angular.module_", "angular.injector", "ng.module_", "mappings\": ";;;

......:AAAA:;;;;:AA0NA,SAAS,IAAI,IAACX,MAAM,IAAI,KAAK,CAAC,+:BAA+B,CAAC,CAAC,CACID:AAED
. MAAM,WAAW,IAAI+4B,MAAM,IAAI,EAAE,CAAC,CAAC,AAEC,WAAW,CAAC,SAAS,GAAG,IAAI,CAAC
. AA7B,IAALOAO,GAAY,P,IACF,SAAS,EAEE,IAAI;IACF,MAAM,EAEE,IAAI;IACZ,0A0,EAEE,WAAW;I
ACpB,QAAQ,EAEE,IAAI;IACd;IAACd,OA0,EAEE,SAAgB;IAACzB,eAAe,EAEE,IAAI;IACrB,CAAC
. CrB,CAAC,AAEF,IAAI;IACF,IAAI,MAAM,CAAC,CAAC,EAEE;QACpC,0A0,GAAS,M
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src
zip/fesm2015/static/testing.js.map

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

"version":3,"sources":["packages/upgrade/upgrade-
static.umd.js"],"names":[]}
$\text{DELEGATE} = \$\text{delegate}; \text{ var } \$\text{EXCEPTION\_HANDLER} = \$\text{exception\_Handler}; \text{ var } \\
\text{HTTP\_BACKEND} = \$\text{http\_backend}; \text{ var } \$\text{INJECTOR} = \$\text{injector}; \text{ var } \$\text{INTERVAL} = \$\text{interval}; \text{ var } \\
\text{PARSE} = \$\text{parse}; \text{ var } \$\text{PROVIDE} = \$\text{provide}; \text{ var } \$\text{ROOT\_SCOPE} = \$\text{root\_scope}; \text{ var } \$\text{SCOPE} = \\
\$\text{scope}; \text{ var } \$\text{TEMPLATE\_CACHE} = \$\text{template\_cache}; \text{ var } \$\text{TEMPLATE\_REQUEST} = \\
\$\text{template\_request}; \text{ var } \$\text{TESTABILITY} = \$\text{testability}; \text{ var } \$\text{COMPILER\_KEY} = \$\text{compiler\_key}; \text{ var } \\
\text{DOWNGRADED\_MODULE\_COUNT\_KEY} = \$\text{dowgraded\_module\_count\_key}; \text{ var } \text{ GROUP\_PROJECTABLE\_NODES\_KEY} = \$\text{angular\_group\_projectable\_nodes\_key}; \text{ var } \$\text{INJECTOR\_KEY} = \\
\$\text{injector\_key}; \text{ var } \$\text{LAZY\_MODULE\_REF} = \$\text{angular\_lazy\_module\_ref}; \text{ var } \$\text{NG\_ZONE\_KEY} = \\
\$\text{ng\_zone\_key}; \text{ var } \$\text{UPGRADE\_APP\_TYPE\_KEY} = \$\text{angular\_upgrade\_app\_type\_key}; \text{ var } \text{ REQUIRE\_INJECTOR} = \$\text{require\_injector}; \text{ var } \text{ REQUIRE\_NG\_MODEL} = \$\text{require\_ng\_model}; \text{ var } \\
\text{ UPGRADE\_MODULE\_NAME} = \$\text{upgrade\_module\_name}; \text{ var } \text{ NG\_APP\_TYPE} = \\
\$\text{angular\_app\_type}; \text{ var } \$\text{ANGULAR\_AUTHORITY} = \$\text{angular\_authority}; \text{ var } \$\text{UPGRADE\_APP\_TYPE} = \\
\$\text{upgrade\_app\_type}; \text{ var } \$\text{INJECTOR\_KEY} = \$\text{injector\_key}; \text{ var } \text{ REQUIRE\_INJECTOR} = \$\text{require\_injector}; \text{ var } \\
\text{ REQUIRE\_NG\_MODEL} = \$\text{require\_ng\_model}; \text{ var } \text{UPGRADE\_MODULE\_NAME} = \$\text{upgrade\_module\_name}; \text{ var } \\
\$\text{INJECTOR\_KEY} = \$\text{injector\_key}; \text{ var } \text{ REQUIRE\_INJECTOR} = \$\text{require\_injector}; \text{ var } \\
\text{ REQUIRE\_NG\_MODEL} = \$\text{require\_ng\_model}; \text{ var } \text{UPGRADE\_MODULE\_NAME} = \$\text{upgrade\_module\_name};
while \\" + attemptedAction + \\": Unable to find the specified downgraded module.\\n" +
                        'Did you forget to downgrade an Angular module or include it in the AngularJS ' +
                        'application?');
        }
    }
    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 `ng-model`
     *     compatibility.\n     */
    function supportsNgModel(component) {
        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).\n     */
    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);
    }

    /**
     * @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 INITIAL_VALUE = {
        __UNINITIALIZED__: true
    };
    var DowngradeComponentAdapter = /** @class */ (function () {
        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile, $parse, componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrapCallback = wrapCallback;
            this.implementsOnChanges = false;
            this.inputChangeCount = 0;
            this.inputChanges = {};
            this.componentScope = scope.$new();
            this.$injector = componentFactory.injector;
        }
        DowngradeComponentAdapter.prototype.compileContents = function () {
            var _this = this;
            var compiledProjectableNodes = [];
            var projectableNodes = this.groupProjectableNodes();
            var linkFns = projectableNodes.map(function (nodes) { return _this.$compile(nodes); });
            this.element.empty();
            linkFns.forEach(function (linkFn) {
                linkFn(this.scope, function (clone) {
                    compiledProjectableNodes.push(clone);
                    this.element.append(clone);
                });
            });
            return compiledProjectableNodes;
        };
        DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
            var providers = [{ provide: $SCOPE, useValue: this.componentScope }];
            var childInjector = core.Injector.create({
                providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });
            this.childInjector = childInjector;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
            this.componentScope = scope.$new();
            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.childInjector = childInjector;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
            this.componentScope = scope.$new();
            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.childInjector = childInjector;
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            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
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            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
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            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.childInjector = childInjector;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
            this.componentScope = scope.$new();
            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.childInjector = childInjector;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
            this.componentScope = scope.$new();
            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.childInjector = childInjector;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
            this.componentScope = scope.$new();
            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.childInjector = childInjector;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
            this.componentScope = scope.$new();
            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.childInjector = childInjector;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.changeDetector = this.componentRef.instance;
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.groupProjectableNodes = function (nodes) {
                return false;
            };
            this.inputChanges = function () {
                return false;
            };
            this.componentScope = scope.$new();
            this.compiledProjectableNodes = [];
            this.childInjector = childInjector;
var _this = this;
if (propagateDigest === void 0) { propagateDigest = true; }
var attrs = this.attrs;
var inputs = this.componentFactory.inputs || [];
var _loop_1 = function (i) { var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
  var expr = null;
  if (attrs.hasOwnProperty(input.propAttr)) { expr = attrs[input.propAttr];
  } else if (attrs.hasOwnProperty(input.bracketAttr)) { expr = attrs[input.bracketAttr].substring(2, input.bracketAttr.length - 2) + "]";
  } else if (attrs.hasOwnProperty(input.bindAttr)) { expr = attrs[input.bindAttr];
  }
  else if (attrs.hasOwnProperty(input.bracketParenAttr)) { expr = attrs[input.bracketParenAttr].substring(2, input.bracketParenAttr.length - 8) + "]")";
  } else if (attrs.hasOwnProperty(input.bindonAttr)) { expr = attrs[input.bindonAttr];
  } else if (attrs.hasOwnProperty(input.bindonParenAttr)) { expr = attrs[input.bindonParenAttr].substring(2, input.bindonParenAttr.length - 8) + "]")";
  } if (expr == null) { unwatch_1();
  } else if (attrs.hasOwnProperty(input.attr)) {
    var observeFn_1 = (function (prop) {
      var observeFn = (function (prop) { return function (currValue, prevValue) {
        return _this.updateInput(prop, prevValue, currValue);
      };
    })(input.prop);
    if (prevValue === INITIAL_VALUE) {
      prevValue = currValue;
    }
    _this.updateInput(prop, prevValue, currValue);
  }
  else if (attrs.hasOwnProperty(input.bracketAttr)) {
    expr = attrs[input.bracketAttr];
  }
  else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
    expr = attrs[input.bracketParenAttr].substring(2, input.bracketParenAttr.length - 8) + "]")";
  } else if (attrs.hasOwnProperty(input.bindAttr)) {
    expr = attrs[input.bindAttr];
  }
  unwatch_2 = this.componentScope.$watch(function () {
    this.unsubscribeToOutput(output, attrs[output.onAttr]);
    }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr], true);
  } unwatch_1();
});

// `ngOnChanges()` will be called as the output updates, which means that
// `ngOnChanges()` (which is called by a watcher) will run before the `\$observe()`
// callback.

// Order below is important - first update bindings then evaluate expressions
if (!strictEquals(prevValue, currValue)) {
  if (prevValue !== INITIALLY_VALUE) {
    prevValue = currValue;
  } 
  _this.updateInput(prop, prevValue, currValue);
}

// Important - first update bindings then evaluate expressions
if (!strictEquals(prevValue, currValue)) {
  if (prevValue !== INITIALLY_VALUE) {
    prevValue = currValue;
  } 
  _this.updateInput(prop, prevValue, currValue);
}

var outputRefs = this.outputRefs || [];
var output = this.componentFactory.outputs || [];
var i;
for (var j = 0; j < outputs.length; j++) {
  var output = new PropertyBinding(outputs[i].propName, outputs[i].templateName);
  var bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
  var var bindonAttr = \"\" + output.bindonAttr.substring(2, output.bindonAttr.length - 8) + \\
};

// When changing inputs, update output and vice versa.

// 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 () {
    this.subscribeToOutput(output, attrs[output.onAttr]);
    }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr], true);
  } unwatch_2();
}

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

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

// For `\$observe()` and `\$watch()` to call this function.
if (!strictEquals(prevValue, currValue)) {
  if (prevValue !== INITIALLY_VALUE) {
    prevValue = currValue;
  } 
  _this.updateInput(prop, prevValue, currValue);
  prevValue = currValue;
  _this.updateInput(prop, prevValue, currValue);
}

// 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 () {
    this.subscribeToOutput(output, attrs[output.onAttr]);
    }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr], true);
  } unwatch_2();
}

// 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 () {
    this.subscribeToOutput(output, attrs[output.onAttr]);
    }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr], true);
  } unwatch_2();
}

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  this.componentScope.$watch(this.wrapCallback(detectChanges));
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// (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
if (manuallyAttachView || !propagateDigest) {
  var unwatch_2 = this.componentScope.$watch(function () {
    this.subscribeToOutput(output, attrs[output.onAttr]);
    }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr], true);
  } unwatch_2();
}

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

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// (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 () {
    this.subscribeToOutput(output, attrs[output.onAttr]);
    }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr], true);
  } unwatch_2();
}

// 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.$watch(function () {
    this.subscribeToOutput(output, attrs[output.onAttr]);
    }
  if (attrs.hasOwnProperty(output.onAttr)) {
    this.subscribeToOutput(output, attrs[output.onAttr], true);
  } unwatch_2();
}
var getter = this.$parse(expr);
var setter = getter.assign;

if (isAssignment && !setter) {
    throw new Error("Expression '" + expr + "' is not assignable!");
}

var emitter = this.component[prop];

if (isAssignment) {
    emitter.subscribe(function (v) { return getter(_this.scope, v); });
}

else {
    var emitter = this.component[prop];
    if (emitter) {
        emitter.subscribe(function (v) { return getter(_this.scope, { '$event': v }); });
    }
    else {
        throw new Error("Missing emitter '" + output.prop + "' on component '" + getTypeName(this.componentFactory.componentType) + "'!");
    }
}

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 {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(i);
            }
        }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
        ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices;
}

function matchesSelector(el, selector) {
    if (!_matches) {
        var elProto = 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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 * the LICENSE file at https://angular.io/license
 */

function isThenable(obj) {
    return obj && isFunction(obj.then);
}

/**
 * Synchronous, promise-like object.
 */

var SyncPromise = function SyncPromise() {
    this.resolved = false;
    this.callbacks = [];
};

SyncPromise.all = function (valuesOrPromises) {
    var aggrPromise = new SyncPromise();
    var resolvedCount = 0;
    var results = [];
    var valuesOrPromises;
    for (var i = 0; i < valuesOrPromises.length; i++) {
        valuesOrPromises[i].then(function (result) {
            results[i] = result;
            if (++resolvedCount === valuesOrPromises.length) {
                aggrPromise.resolve(results);
            }
        });
    }
    return aggrPromise;
};

function SyncPromise() {
}

SyncPromise.resolve = function (value) {
    if (++resolvedCount === this.resolvedCount) {
        var callbacks = this.callbacks;
        for (var i = 0; i < callbacks.length; i++) {
            callbacks[i].call(this, value);
        }
    }
    return this;
};

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

function isFunction(obj) {
    return typeof obj === 'function';
}

/**
 * Synchronous, promise-like object.
 */

var SyncPromise = function SyncPromise() {
    this.resolved = false;
    this.callbacks = [];
};

SyncPromise.all = function (valuesOrPromises) {
    var aggrPromise = new SyncPromise();
    var resolvedCount = 0;
    var results = [];
    var valuesOrPromises;
    for (var i = 0; i < valuesOrPromises.length; i++) {
        valuesOrPromises[i].then(function (result) {
            results[i] = result;
            if (++resolvedCount === valuesOrPromises.length) {
                aggrPromise.resolve(results);
            }
        });
    }
    return aggrPromise;
};

function SyncPromise() {
}

SyncPromise.resolve = function (value) {
    if (++resolvedCount === this.resolvedCount) {
        var callbacks = this.callbacks;
        for (var i = 0; i < callbacks.length; i++) {
            callbacks[i].call(this, value);
        }
    }
    return this;
};

/**
 * Synchronous, promise-like object.
 */
if (!parentInjector || hasMultipleDowngradedModules) {\n    var downgradedModule = info.downgradedModule || '';\n    var lazyModuleRefKey = '\n    + LAZY_MODULE_REF + getTypeName(info.component) + '\n    + validateInjectionKey(Sinjector, downgradedModule, lazyModuleRefKey, attemptedAction);\n    var lazyModuleRef = $injector.get(lazyModuleRefKey);\n    moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;\n}\n
// Notes:\n// There are two injectors: 'finalModuleInjector' and 'finalParentInjector' (they might be\n// the same instance, but that is irrelevant):\n// - 'finalModuleInjector' is used to retrieve `ComponentFactoryResolver`, thus it must be\n// on the same tree as the 'NgModule' that declares this downgraded component;\n// - 'finalParentInjector' is used for all other injection purposes.\n// (Note that Angular knows to only traverse the component-tree part of that injector,\n// when looking for an injectable and then switch to the module injector.)\n// There are basically three cases:\n// - If there is no parent component (thus no `parentInjector`), we\nbootstrap the downgraded\n//   'NgModule' and use its injector as both 'finalModuleInjector' and\n//   'finalParentInjector'.\n// - If there is a parent component (and thus a 'parentInjector') and we\nare sure that it\n//   belongs to the same 'NgModule' as this downgraded component (e.g. because there is\nonly\n//   one downgraded module, we use that 'parentInjector' as both 'finalModuleInjector' and\n//   'finalParentInjector').\n// - If there is a parent component, but it may belong to a different\n'NgModule', then we\n//   use the 'parentInjector' as 'finalParentInjector' and this downgraded\ncomponent's\n//   declaring 'NgModule's injector as 'finalModuleInjector'.\n// Note 1: If the 'NgModule' is already bootstrapped, we just get its injector (we don't\n//   bootstrap again).\n// Note 2: It is possible that (while there are multiple downgraded modules) this\n// downgraded component and its parent component both belong to the same NgModule.\n// In that case, we could have used the 'parentInjector' as both\n// 'finalModuleInjector' and\n// 'finalParentInjector', but (for simplicity) we are\n// treating this case as if they belong to different\n'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\n// injector.\n// If this is a 'top-level' Angular component, use the module injector.\nvar finalParentInjector = parentInjector || moduleInjector;\n// If this is a 'top-level' Angular component or\n// the parent component may belong to a\n// different 'NgModule', use the module injector for module-specific dependencies.\n// If there is a parent component that belongs to the same 'NgModule', use its\ninjector.\nvar finalModuleInjector = moduleInjector || parentInjector;\nvar doDowngrade = function (injector, moduleInjector) {\n    // Retrieve `ComponentFactoryResolver` from the injector tied to the 'NgModule'\n    // this\n    // component belongs to.\n    var componentFactoryResolver =\n        componentFactoryResolver.resolveComponentFactory(info.component);\n    if (!componentFactory) {\n        throw new Error('"Expecting ComponentFactory for: " + getTypeName(info.component));\n    }\n    var injectorPromise = new ParentInjectorPromise(element);\n    var facade =\n        new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, Scompile, Sparse,\n        componentFactory, wrapCallback);\n    var projectableNodes = facade.compileContents();\n    facade.createComponent(projectableNodes);\n    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n    facade.setupOutputs();\n    facade.registerCleanup();\n    injectorPromise.resolve(facade.getInjector());\n    if (ranAsync) {\n        // If this is run async, it is possible that it is not run inside an\n        // digest and initial input values will not be detected.\n        scope.$evalAsync(function () { });\n    }\n    var downgradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {\n        if (!ngZone) {\n            ngZone = pInjector.get(core.NgZone);\n        }\n    //
NOTE
// Not using 'ParentInjectorPromise.all' (which is inherited from 'SyncPromise'), because
// Closure Compiler (or some related tool) complains
// 'TypeError: ...
SyncPromise.all([finalParentInjector, finalModuleInjector])
.then(function (_a) {
var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];
return downgradeFn(pInjector,
mInjector);
});
// bracket-
notation because of closure - see #14441
directiveFactory['$inject'] = [
$COMPILE, $INJECTOR,
$PARSE];
return directiveFactory;

/**
 * A helper function to allow an Angular
 * service to be accessible from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)*
 * library for hybrid upgrade apps that support AOT compilation
 *
 * This helper function returns a factory
 * function that provides access to the Angular
 * service identified by the `token` parameter.
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is provided in an
 * `NgModule` that will be part of the upgrade application. For example, let’s assume we have
 * defined `HeroesService` and that we have included this in our upgrade app

 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.

 * Inside an AngularJS

 * component's controller we can get hold of the
 * downgraded service via the name we gave when

 * 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.

 * (This option is only necessary when using `downgradeModule()` to downgrade more
 * than one Angular
 * module.)
 * returns a [factory function](https://docs.angularjs.org/guide/di) that
 * can be
 * used to register the service on an AngularJS module.
 * function
 * function downgradeInjectable(token, downgradeModule) {
 * (downgradeModule == void 0) {
 * return function ($injector) {
 * var injectorKey = "" + INJECTOR_KEY +
 * downgradeModule;
 * var injectableName = isFunction(token) ?
 * getPropertyName(token) :

var attemptedAction = "instantiating injectable " + injectableName + "";
validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
var injector = $injector.get(injectorKey);
return injector.get(token);
}
function rootScopeFactory(i) {
return i.get('$rootScope');
}
function compileFactory(i) {
return i.get('$compile');
}
function parseFactory(i) {
return i.get('$parse');
}
var angular1Providers = [
    { provide: '$injector', useFactory: injectorFactory, deps: [] },
    { provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector'] },
    { provide: '$compile', useFactory: compileFactory, deps: ['$injector'] },
    { provide: '$parse', useFactory: parseFactory, deps: ['$injector'] }
];
var NgAdapterInjector = /** @class */ (function () {
    function NgAdapterInjector(modInjector) {
        this.modInjector = modInjector;
    }
    NgAdapterInjector.prototype.get = function (token, notFoundValue) {
        if (notFoundValue === core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
            return notFoundValue;
        }
        return this.modInjector.get(token, notFoundValue);
    };
    return NgAdapterInjector;
}());

var moduleUid = 0;
var NgAdapterInjector.prototype.get = function (token, notFoundValue) {
    if (notFoundValue === core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
        return notFoundValue;
    }
    return this.modInjector.get(token, notFoundValue);
};
wrapper module. You can use it to declare a dependency in your main AngularJS module:

```typescript
[example upgrade/static/ts/lite/module.ts region="basic-how-to"]
```

For more details on how to use `downgradeModule()` see

```typescript
[Upgrading for Performance](guide/upgrade-performance)
```

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

```typescript
component.
```

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

```typescript
[usageNotes]
```

### 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

2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run

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

```
[scope.$apply(...)]
```

or

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

You can manually trigger a change detection run in AngularJS using

```typescript
[scope.$apply(...)]
```

or

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

You can manually trigger a change detection run in Angular using

```
platformBrowser.platformBrowser(...).bootstrapModule...
```

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

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

'platformBrowserDynamic')
```

- When using `platformBrowserBootstrapModule` `bootstrapModule()` or

```typescript
[link PlatformRef#bootstrapmodule]
```

```typescript
[bootstrapModuleFactory()]
```

```typescript
function downgradeModule(moduleFactoryOrBootstrapFn) {
```

```typescript
function downgradeModule(moduleFactoryOrBootstrapFn) {
```

```typescript
platformBrowser.platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
```

```typescript
module.lazyModuleName = 
```

```typescript
LazyModuleRefKey = 
```

```typescript
LazyModuleRef + lazyModuleName;
```

```typescript
var lazyInjectorKey = 
```

```typescript
INJECTOR_KEY + 
```

```typescript
lazyModuleName:
```

```typescript
moduleFactoryOrBootstrapFn = 
```

```typescript
return 
```

```typescript
Create an ng1 module to bootstrap.
```

```typescript
module[(lazyModuleName, [])]
```
const UPGRADE_APP_TYPE_KEY = 3 /* Lite */;

.factory(INJECTOR_KEY, [lazyInjectorKey, identity])
    .factory(lazyInjectorKey, function () {
        if (!injector) {
            throw new Error('Trying to get the Angular injector before bootstrapping the corresponding ' +
                'Angular module.');
        } return injector;
    })
    .factory(INJECTOR_KEY, [
            lazyModuleRefKey, identity])
    .factory(lazyModuleRefKey, [
            SINJECTOR, function ($injector) {
              injector.get(SINJECTOR);
              return injector;
            }])
    .config([SINJECTOR, $PROVIDE, $provided], function ($injector, $provide) {
        $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
    });

UpgradeHelper = /** @class */
(function () {
  function UpgradeHelper(injector, name, elementRef, directive) {
    this.injector = injector;
    this.name = name;
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);
    this.element = elementRef.nativeElement;
    this.$element = this.$compile(this.element);
    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

  UpgradeHelper.getDirective = function ($injector, name) {
    var directives = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error("Only support single directive definition for: " + name);
    }
    var directive = directives[0];
    if (directive.compile && !directive.link)
      notSupported(name, 'compile');
    if (directive.replace)
      notSupported(name, 'replace');
    if (directive.terminal)
      notSupported(name, 'terminal');
    return directive;
  };

  UpgradeHelper.getTemplate = function ($injector, directive, fetchRemoteTemplate, $element) {
    if (fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false; }
    if (directive.template !== undefined) {
      return getOrCall(directive.template, $element);
    } else if (directive.templateUrl) {
      var $templateCache = $injector.get($TEMPLATE_CACHE);
      var url = getOrCall(directive.templateUrl, $element);
      var 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(function (resolve, reject) {
        var $httpBackend = $injector.get($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 + '"');
          }
        }, function (error) { throw new Error('Directives "' +
          directive.name + '" is not a component, it is missing template.' +
          'This component will not be usable in your application.');
        });
      })
    }
    return new Promise(function (resolve, reject) {
      var $httpBackend = $injector.get($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 + '"');
        }
      }, function (error) { throw new Error('Directives "' +
        directive.name + '" is not a component, it is missing template.' +
        'This component will not be usable in your application.');
      });
    })
  };

  UpgradeHelper.prototype.buildController = function (controllerType, $scope) {
    // TODO: Document that
    // we do not pre-assign bindings on the controller instance.
    if ($scope === undefined) {
      throw new Error('controller must be a controller instance');
    }
    var locals = {
      '$scope': $scope, 'Element': this.$element,
      '$injector': this.$injector, 'compile': this.$compile,
      'controller': controllerType,
      'directive': directive,
      'element': elementRef
    };
    this.$controller(controllerType, locals, null, this.directive.controllerAs);
    var controller = this.$controller(this.$injector, this.directive, false, this.$element);
    this.$element.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
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 NOT_SUPPORTED = 'NOT_SUPPORTED';\n var
INITIAL_VALUE$1 = {\n
__UNINITIALIZED__: true\n };\n var Bindings = /** @class */ (function () {\n
function Bindings() {\n
this.twoWayBoundProperties = [];\n
this.twoWayBoundLastValues = [];\n
this.expressionBoundProperties = [];\n
this.propertyToOutputMap = {};\n
}\n
return
Bindings;\n }());\n /**\n * @description\n *\n * A helper class that allows an AngularJS component to be
used from Angular.\n *\n * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid
upgrade apps that support AOT compilation.*\n *\n * This helper class should be used as a base class for
creating Angular directives\n * that wrap AngularJS components that need to be \"upgraded\".\n *\n *
@usageNotes\n * ### Examples\n *\n * Let's assume that you have an AngularJS component called
`ng1Hero` that needs\n * to be made available in Angular templates.\n *\n * {@example
upgrade/static/ts/full/module.ts region=\"ng1-hero\"}\n *\n * We must create a `Directive` that will make this
AngularJS component\n * available inside Angular templates.\n *\n * {@example
upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\"}\n *\n * In this example you can see that we must
derive from the `UpgradeComponent`\n * base class but also provide an {@link Directive `@Directive`}
decorator. This is\n * because the AOT compiler requires that this information is statically available at\n *

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```
@publicApi
var UpgradeComponent = /** @class */ (function () {
    /**
     * Create a new `UpgradeComponent` instance. You should not normally need to do this.
     * Instead you should derive a new class from this one and call the super constructor.
     *
     * QUESTION 1: Should we create an isolated scope if the scope is only true?
     * QUESTION 2: Should we make the scope accessible through `UpgradeHelper.get(isolateScope)`?
     */
    function UpgradeComponent(name, elementRef, injector) {
        this.name = name;
        this.elementRef = elementRef;
        this.injector = injector;
        this.helper = new UpgradeHelper(injector, name, elementRef);
        this.$injector = this.helper.$injector;
        this.element = this.helper.element;
        this.$element = this.helper.$element;
        this.directive = this.helper.directive;
        this.bindings = this.initializeBindings(this.directive);
        // We ask for the AngularJS scope from the Angular injector, since
        // we will put the new component scope onto the new injector for each component
        var $parentScope = injector.get('$scope');
        // QUESTION 1: Should we create an isolated scope if the scope is only true?
        // QUESTION 2: Should we make the scope accessible through `UpgradeHelper.get(isolateScope)`?
        this.$componentScope = $parentScope.$new((!!this.directive.scope));
        UpgradeComponent.prototype.ngOnInit = function () {
            var _this = this;
            // Collect contents, insert and compile template
            var attachChildNodes = this.helper.prepareTransclusion();
            var linkFn = this.helper.compileTemplate();
            // Instantiate controller
            var controllerType = this.directive.controller;
            var bindToController = this.directive.bindToController;
            if (controllerType) {
                this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
            }
            else if (bindToController) {
                throw new Error("Upgraded directive '" + this.directive.name + "' specifies 'bindToController' but no controller.");
            }
            // Set up outputs
            this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
            this.bindOutputs();
            // Require other controllers
            var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
            // Hook: $onChanges
            if (this.pendingChanges) {
                this.forwardChanges(this.pendingChanges);
                this.pendingChanges = null;
            }
            // Hook: $onInit
            if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
                this.controllerInstance.$onInit();
            }
            // Hook: $doCheck
            if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
                var callDoCheck = function () { return this.controllerInstance.$doCheck(); };
                this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
            }
            // Linking
            var link = this.directive.link;
            var preLink = typeof link == 'object' && link.pre;
            var postLink = typeof link == 'object' ? link.post : link;
            var attrs = NOT_SUPPORTED;
            var transcludeFn = NOT_SUPPORTED;
            if (preLink) {
                preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
            }
            linkFn(this.$componentScope, this.$element, { parentBoundTranscludeFn: attachChildNodes });
            if (postLink) {
                postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
            }
            // Hook: $postLink
            if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
                this.controllerInstance.$postLink();
            }
            UpgradeComponent.prototype.ngDoCheck = function () {
                var propertyToOutputMap =
```
this.bindings.propertyToOutputMap.forEach(function (propName, idx) {
  var newValue = this.bindingDestination[propName];
  var oldValue = twoWayBoundLastValues[idx];
  if (!core.looseIdentical(newValue, oldValue)) {
    var outputName = propertyToOutputMap[propName];
    var eventEmitter = _this[outputName];
    eventEmitter.emit(newValue);
    twoWayBoundLastValues[idx] = newValue;
  }
});

UpgradeComponent.prototype.ngOnDestroy = function () {
  if (isFunction(this.unregisterDoCheckWatcher)) {
    this.unregisterDoCheckWatcher();
  }
  this.helper.onDestroy(this.$componentScope, this.controllerInstance);
};

UpgradeComponent.prototype.initializeBindings = function (directive) {
  var _this = this;
  var btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject && Object.keys(directive.scope).length) {
    throw new Error("Binding definitions on scope and controller at the same time is not supported.");
  }
  var context = btcIsObject ? directive.bindToController : directive.scope;
  var bindings = new Bindings();
  if (typeof context == 'object') {
    Object.keys(context).forEach(function (propName) {
      var definition = context[propName];
      var bindingType = definition.charAt(0);
      switch (bindingType) {
        case '@':
        case '<':
          // We don't need to do anything special. They will be defined as inputs on the upgraded component facade
          break;
        case '=':
          bindings.twoWayBoundProperties.push(propName);
          bindings.propertyToOutputMap[propName] = propName + 'Change';
          break;
        case '&':
          bindings.expressionBoundProperties.push(propName);
          bindings.propertyToOutputMap[propName] = propName;
          break;
        default:
          var json = JSON.stringify(context);
          throw new Error("Unexpected mapping '" + bindingType + "' in '" + json + "' in '" + _this.name + "' directive.");
      }
    });
  }
  return bindings;
};

UpgradeComponent.prototype.initializeOutputs = function () {
  var _this = this;
  this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
    .forEach(function (propName) {
      var outputName = _this.bindings.propertyToOutputMap[propName];
      _this[outputName] = new core.EventEmitter();
    });

UpgradeComponent.prototype.bindOutputs = function () {
  var _this = this;
  this.bindings.expressionBoundProperties.forEach(function (propName) {
    var outputName = _this.bindings.propertyToOutputMap[propName];
    var emitter = _this[outputName];
    _this.bindingDestination[propName] = function (value) { return emitter.emit(value); };  
  });
};
UpgradeComponent.

2. Creation of an AngularJS 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 `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`.

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

@usageNotes

* See also the `{@link UpgradeModule#examples 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
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\"/\"downgraded\" component is instantiated the host element is owned by
the framework doing the instantiation. The other framework then instantiates and owns the
view for that component.

1. This implies that the component bindings will always follow the semantics of the
instantiation framework.

2. The DOM attributes are parsed by the framework that owns the current template.

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
\)`Sapply()\`

### 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.

* Core AngularJS services
  * Importing this `NgModule` will add providers for the core
    * [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.
  * The runtime instance of this class contains a `{@link UpgradeModule#bootstrap `bootstrap(\`)\`) 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
    * `{@link UpgradeModule#injector root injector}`, the
      * bootstrap `NgZone` and the
    * `{@link AngularJS $injector[https://docs.angularjs.org/api/auto/service/$injector]`.

### Examples

* Import the `UpgradeModule` into your top level
  * `{@link NgModule Angular`
  * `{@example upgrade/static/ts/full/module.ts region="ng2-module")

* Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level
  * `{@example upgrade/static/ts/full/module.ts region="bootstrap-ng2")

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

* `{@example upgrade/static/ts/full/module.ts region="bootstrap-ng2")

* There is no specific API for upgrading an AngularJS service. Instead you should just follow
  following recipe:

* Let's say you have an AngularJS service:

* `{@example upgrade/static/ts/full/module.ts region="ng1-text-formatter-service")

* Then you
should define an Angular provider to be included in your `NgModule` `providers` * property.

```typescript
[@example upgrade/static/ts/full/module.ts region="upgrade-ng1-service"]

**Then you can use the \"upgraded\" AngularJS service by injecting it into an Angular component**

```
setTimeout(function () {
  var $rootScope = $injector.get('$rootScope');
  var subscription = _this.ngZone.onMicrotaskEmpty.subscribe(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();
  });
  $rootScope.$on('$destroy', function () {
    subscription.unsubscribe();
  });
  if (windowAngular =
    window['angular']):
    windowAngular.resumeBootstrap = undefined;
  // Bootstrap the AngularJS application inside our zone
  this.ngZone.run(function () {
    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();
  });
  return $rootScope.$digest();
}, 0);

var upgradeModule =
  module_(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));

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

if (windowAngular.resumeBootstrap)
  windowAngular.resumeBootstrap = originalResumeBootstrap_1 =
    function () {
      var originalResumeBootstrap_1 =
        windowAngular.resumeBootstrap;
    }

windowAngular.resumeBootstrap = function () {
  var _this = this;
  var args =
    arguments;
  windowAngular.resumeBootstrap = originalResumeBootstrap_1;
  return
    ngZone_1.run(function () {
      return windowAngular.resumeBootstrap.apply(_this, args);
    });
}

UpgradeModule = __decorate(['
  core.NgModule({ providers: [angular1Providers] }),

  __metadata("design:paramtypes", [
    core.Injector,
    core.NgZone
  ])
'], UpgradeModule);

return UpgradeModule;

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

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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/bundles/upgrade-static.umd.min.js.map
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/**

*/
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hybrid application. This makes it simpler and faster to unit test services.

* Use the returned class as an `import` when configuring the `TestBed`. In the following code snippet, we are configuring the TestBed with two imports.

* The `Ng2AppComponent` is the Angular part of our hybrid application and the `ng1AppComponent` is the AngularJS part.

* In the following code snippet, the returned class is not used as an "import" when configuring the `TestBed`.

When configuring the `TestBed` with two imports, it becomes simpler and faster to unit test services. Services that are (or have dependencies on) an upgraded AngularJS service will be instantiated as needed by the AngularJS `Injector`.

In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

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

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.

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

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

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.

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.

In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

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

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In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

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

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

* Only call this helper once per spec.

* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

* Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

* <code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>

* <code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>

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* Generated bundle index. Do not edit.

```
exports.createAngularJSTestingModule = createAngularJSTestingModule;
exports.angular_packages_upgrade_static_testing_testing_a = module_;
exports.angular_packages_upgrade_static_testing_testing_b = UPGRADE_APP_TYPE_KEY;
exports.angular_packages_upgrade_static_testing_testing_d = INJECTOR_KEY;
Object.defineProperty(exports, '__esModule', { value: true });
// sourceMappingURL=upgrade-static-testing.umd.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/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-
static.umd.js

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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
  // `Sinject?: string[]`, which is not compatible with `Sinject?:

  // New version of `@types/angular` extends `IAnnotatedFunction` with
  // `Sinject!: string[]`, which is compatible with `Sinject?:

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  // found in the LICENSE file at https://angular.io/license
}
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
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};\nexport interface IProvider { $get: IInjectable; }\nexport interface IProvideService {\n provider(token:
Ng1Token, provider: IProvider): IProvider;\n factory(token: Ng1Token, factory: IInjectable): IProvider;\n
service(token: Ng1Token, type: IInjectable): IProvider;\n value(token: Ng1Token, value: any): IProvider;\n
constant(token: Ng1Token, value: any): void;\n decorator(token: Ng1Token, factory: IInjectable): void;\n}\nexport
interface IParseService { (expression: string): ICompiledExpression; }\nexport interface ICompiledExpression {\n
(context: any, locals: any): any;\n assign?: (context: any, value: any) => any;\n}\nexport interface

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```
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 {
  (template: string|any /* TrustedResourceUrl */ , ignoreRequestError?: boolean):
Promise<string>;
  totalPendingRequests: number;
}

export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean):
Promise<any>;
  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, invokeApply?: boolean): void;
  cancel(promise: Promise): void;
}

export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $viewValue: any;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = () => noNg() as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>
                IInjectorService,
  module: (prefix: string, dependencies?: string[]): IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element, expression: string, opt_exactMatch?: boolean): Element[];
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @publicApi
 * @license
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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 = 'Sinjector';

export const $INTERVAL = 'interval';

export const $PARSE = 'parse';

export const $PROVIDE = 'provide';

export const $SCOPE = 'scope';

export const $ROOT_SCOPE = 'rootScope';

export const $SCOPE = 'scope';

export const $templateCache = 'templateCache';

export const $templateRequest = 'templateRequest';

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

export const COMPILER_KEY = '$$angularCompiler';

export const DOWNGRADED_MODULE_COUNT_KEY = '$$UpgradeModule';

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 = '????';

export const REQUIRE_NG_MODEL = '?ngModel';

export const UpgradeAppType = 'UpgradeAppType';

export const RequireInjector = '????';

export const RequireNgModel = '?ngModel';

export const requireNgModel = '?ngModel';

export const DirectiveNormalize = 'DirectiveNormalize';

export const getTypeName = 'getTypeName';

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

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

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

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const providers: StaticProvider[] = [{provide: SCOPE, useValue: this.componentScope}];
  const childInjector = Injector.create({
    providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
  this.componentRef = this.createComponentFactory.create(childInjector, projectableNodes, this.element[0]);
  this.viewChangeDetector = this.createComponentRef.injector.get(ChangeDetectorRef);
  this.changeDetector = this.createComponentRef.changeDetectorRef;
  this.component = this.createComponentRef.instance;
  // testability hook is commonly added during component bootstrap
  // packages/core/src/application_ref/bootstrap() // in downgraded application, component creation 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(true, false); // testability hook is commonly added during component bootstrap
  // packages/core/src/application_ref/bootstrap() // in downgraded application, component creation 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).
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    this.componentRef.injector.get(TestabilityRegistry).
        registerApplication(this.componentRef.location.nativeElement, testability);
  }

  hookupNgModel(this.ngModel, this.component);
  setupInputs(true, false); // testability hook is commonly added during component bootstrap
  // packages/core/src/application_ref/bootstrap() // in downgraded application, component creation 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(true, false); // testability hook is commonly added during component bootstrap
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        registerApplication(this.componentRef.location.nativeElement, testability);
  }

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  // packages/core/src/application_ref/bootstrap() // in downgraded application, component creation 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);
  }
```typescript
const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
const bracketParenAttr = $(output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8));

if (attrs.hasOwnProperty(bindonAttr)) {
  this.subscribeToOutput(output, attrs[bindonAttr], true);
}
if (attrs.hasOwnProperty(bracketParenAttr)) {
  this.subscribeToOutput(output, attrs[bracketParenAttr], true);
}
if (attrs.hasOwnProperty(output.onAttr)) {
  this.subscribeToOutput(output, attrs[output.onAttr]);
}
if (attrs.hasOwnProperty(output.parenAttr)) {
  this.subscribeToOutput(output, attrs[output.parenAttr]);
}
}

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

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();
    }
  });
}

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

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  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) {
    return ngContentIndices[wildcardNgContentIndex];
  } else {
    return ngContentIndices[0] ? ngContentIndices[0].length : null;
  }
}

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

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

const aggriPromise = new SyncPromise<T[]>(callback); let resolvedCount = 0; const results: T[] = []; const

run = (idx: number, value: T) => { results[idx] = value; if (++resolvedCount === valuesOrPromises.length) aggriPromise.resolve(results); }; valuesOrPromises.forEach((p, idx) => { if (isThenable(p)) p.then(v => resolve(idx, v)); else { resolve(idx, p); return aggriPromise; } }); resolve(value: T): void { 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) return; this.callbacks.push(callback); }

return aggriPromise;

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

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 => (i =>
    NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
let ngZone: NgZone;

// When downgrading multiple
modules, special handling is needed wrrt injectors.
const hasMultipleDowngradedModules =
isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
return {
    restrict: 'E',
    terminal: true,
    require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
    link: (scope: IScope, element: IAugmentedJQuery, attr: IAttributes, required: any[]) => {
        // We might have to compile the contents asynchronously, because this might have been
        // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
        // been compiled.
        const ngModel: INgModelController = required[1];
        const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
        let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
        let ranAsync = false;

        if (!parentInjector || hasMultipleDowngradedModules) {
            const downgradedModule = info.downgradedModule
                || ''; const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
            validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);
            const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
            moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
        }

        const finalParentInjector = parentInjector || moduleInjector !;
        const finalModuleInjector = moduleInjector || parentInjector !;

        const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
            // If there is a
            // 'finalParentInjector' as both
            // '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, but it may belong to a different 'NgModule',
            //   then we
            //   use the '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
            //   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 (finalParentInjector !== parentInjector)
                const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
                    // Retrieve 'ComponentFactoryResolver'
                    from the injector tied to the 'NgModule' this
                    // component belongs to.
                    componentFactoryResolver =
                    moduleInjector.getComponentFactoryResolver();
                    const componentFactory: ComponentFactory<any> =

                    Open Source Used In MSX Managed Device Service Pack 3.9.0  4126
componentFactoryResolver.resolveComponentFactory(info.component) !\n
if (!componentFactory) {
  throw new Error('Expecting ComponentFactory for: $getTypeName(info.component)')
}

const injectorPromise = new ParentInjectorPromise(element) !\n
const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback) !\n
const projectableNodes = facade.createComponent(projectableNodes) !\n
facade.setupInputs(isNgUpgradeLite, info.propagateDigest) !\n
injectorPromise.resolve(facade.getInjector()) !\n
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(() => {})
}

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: ...Src$downgrade_component_ParentInjectorPromise.all is not a function'!
SyncPromise.all([finalParentInjector, finalModuleInjector]) !\n
.then(([pInjector, mInjector]) => downgradeFn(pInjector, mInjector) !\n
private injectorKey: string = controllerKey(INJECTOR_KEY) !\n
constructor(private element: IAugmentedJQuery) {
  super();
  // Store the promise on the element.
  element.data !(this.injectorKey, this);
}

resolve(injector: Injector) {
  // Store the real injector on the element.
  this.element.data !(this.injectorKey, injector);

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

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


/**
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 *
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 */

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

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function that provides access to the Angular service identified by the `token` parameter.
 * It is usually combined with a downgraded Injectable that will be part of the upgrade application. For example, let's assume we have an defined `HeroesService` *
 * and that we have included this in our upgrade app's `NgModule` *
 * that will be part of the upgrade application. For example, let's assume we have an `HeroesService` *
 * that will be part of the upgrade application. For example, let's assume we have an `HeroesService` *
 * and that we have included this in our upgrade app's `NgModule` *
 * the upgraded Injectable function for the service * on an AngularJS module.
 * It is usually combined with a downgraded Injectable that will be part of the upgrade application. For example, let's assume we have an `HeroesService` *
 * and that we have included this in our upgrade app's `NgModule` *
 * the 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 only guaranteed that the 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 name of the downgraded module (if any) that the Injectable belongs to, as returned

Open Source Used In MSX Managed Device Service Pack 3.9.0 4127
by a call to `downgradeModule()`. It is the module, whose injector will be used for instantiating the
injectable. <br />

```ts
const injectorKey = `\${INJECTOR_KEY}\${downgradedModule}`;

const injector: Injector =Sinjector.get(injectorKey);

return injector.get(token);
```

### downgradeInjectable(token: any, downgradedModule: string = ``): Function {

```ts
const factory = function(Sinjector: InjectorService) {
  const injectorKey = `\${INJECTOR_KEY}\${downgradedModule}`;
  const injector: Injector = Sinjector.get(injectorKey);

  return injector.get(token);
};
```

### angular1Providers

```ts
{provide: '$injector', useFactory: injectorFactory, deps: [IInjectorService]}
```

### NgAdapterInjector

```ts
NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }

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

###_NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR

```ts
from '@angular/core';
```

### StaticProvider

```ts
{provide: [Injector, NgModuleFactory, NgModuleRef, StaticProvider] from '@angular/core';}
```
A helper function for creating an AngularJS module that can bootstrap an Angular module (possibly lazily) when a [@link downgradeComponent downgraded component] needs to be instantiated.

Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.

It allows loading/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 name 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 by calling `platformBrowser`'s `bootstrapModuleFactory()` on it.
- `Function`: If you pass a function, it is expected to return a promise resolving to an `NgModuleRef`. The function is called with an array of extra `StaticProvider` Providers that are expected to be available from the returned `NgModuleRef`'s `Injector`.

For more details on how to use `downgradeModule()` see [Upgrading for Performance](guide/upgrade-performance).

For more details on how to use `downgradeModule()` see [Upgrading for Performance](guide/upgrade-performance).
When using `@link PlatformRef#bootstrapmodule 'bootstrapModule()'` or

`@link PlatformRef#bootstrapmodulefactory 'bootstrapModuleFactory()'` to bootstrap then

downgraded modules, each one is considered a "root" module. As a consequence, a new instance

will be created for every injectable provided in "root" (via

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

```typescript

platformBrowserDynamic()).

```

* - When using `@link PlatformRef#bootstrapmodule `bootstrapModule(')`

or

`@link PlatformRef#bootstrapmodulefactory `bootstrapModuleFactory(')` to bootstrap the

downgraded modules, each one is considered a "root" module. As a consequence, a new instance

will be created for every injectable provided in "root" (via

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

```typescript

console.log('Starting up!');

```

* - When using `@link PlatformRef#bootstrapmodule `bootstrapModule(')`

or

`@link PlatformRef#bootstrapmodulefactory `bootstrapModuleFactory(')` to bootstrap the

```typescript

platformBrowserDynamic()).

```

* - When using `@link PlatformRef#bootstrapmodule `bootstrapModule(')`

or

`@link PlatformRef#bootstrapmodulefactory `bootstrapModuleFactory(')` to bootstrap the

// 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 & !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(STEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive templateUrl, $element);
      const template = $templateCache.get(url);
      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }

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

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

  return controller;
}

compileTemplate(template?: string): ILinkFn {
  if (template === undefined) {
    template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
  }

  return this.compileHtml(template);
}

onDestroy($scope: IScope, controllerInstance?: any) {
  if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
    controllerInstance.$onDestroy();
  }

  $scope.$destroy();

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

prepareTransclusion(): ILinkFn|undefined {
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();
  const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
    // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
    // `$template` is empty. Since the transcluded content comes from Angular,
    // there will be no transclusion scope here.
    // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
    scope = scope || {$destroy: () => undefined};
    return cloneAttachFn!(scope, scope, $template);
  };
  let $template = contentChildNodes;

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

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

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

    // Add the matching elements into their slot.
    contentChildNodes.forEach(node => {
      const slotName = directiveNormalize(node.nodeName.toLowerCase());
      if (slotName) {
        filledSlots[slotName] = true;
        slots[slotName] = slots[slotName] || [];
        slots[slotName].push(node);
      } else {
        throw new Error('Expected slots to be [object null]!');
      }
    });

    // Check for required slots that were not filled.
    Object.keys(filledSlots).forEach(slotName => {
      if (!filledSlots[slotName]) {
        throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
      }
    });

    return attachChildrenFn($template, $scope, transclude, slots, filledSlots, optional, filledSlots);
  } else {
    throw new Error('Expected slots to be [object null]!');
  }
}

UpgradeHelper.getTemplate($injector, directive, 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(STEMPLATE_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.`);
  }
}
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, cloneAttach: ICloneAttachFunction) => {
    return cloneAttach !(nodes, scope);
  };
});

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

Object.keys(slots).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';
  }
});

return attachChildrenFn;
}

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire = this.getDirectiveRequire();
  const requiredControllers = this.resolveRequire(directiveRequire);

  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
    const requiredControllersMap = requiredControllers as {
      [key: string]: IControllerInstance;
    };
    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];
    });
  } else if (Array.isArray(requiredControllers)) {
    return requiredControllers.map(req => this.resolveRequire(req));
  } else if (typeof requiredControllers === 'object') {
    const value: {
      [key: string]: IControllerInstance;
    } = {};
    Object.keys(requiredControllers).forEach(key => {
      value[key] = this.resolveRequire(requiredControllers[key]);
    });
    return value;
  } else if (typeof requiredControllers === 'string') {
    const match = requiredControllers.match(REQUIRE_PREFIX_RE) !;
    const name = requiredControllers.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 '${requiredControllers}' in upgraded directive '${this.name}'.`);
    }
  }

  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);
    if (name) {
      require[key] = match[0] + key;
    }
  }

  return require;
}

// 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';
}

/* Copyright Google Inc. All Rights Reserved */

export class MyComponent implements OnInit, OnChanges, OnDestroy, OnInit, SimpleChanges, \nguaranteedToHaveWorkingComponentFeature```
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';

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.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that
 * support AOT compilation.*
 *
 * This 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 $scope 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 `@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`) and any 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`) and
 * the `ElementRef` and
 * `Injector` for the component wrapper
 *
 * @publicApi
 */
export class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {
  private helper: UpgradeHelper;

  private $injector: IInjectorService;

  private element: Element;
  private $element: IAugmentedJQuery;
  private $componentScope: IScope;

  private directive: IDirective;
  private bindings: Bindings;

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

  // 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.
   * For example:
   *
   * `{@example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper" }
   *
   * * The `name` parameter
   * should be the name of the AngularJS directive.
   */
  constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {
    this.helper = new UpgradeHelper(injector, name, elementRef);

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

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

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

    const $parentScope = injector.get($SCOPE);
    this.$componentScope = $parentScope.$new(!!this.directive.scope);

    this.initializeOutputs();
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate();

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

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

    // 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 SparentScope = injector.get(SSCOPE);
    // QUESTION 1: Should we create an isolated scope if the scope is only
    // QUESTION 2: Should we make the scope accessible through `Scope`?
    this.SparentScope = SparentScope.Snew(!this.directive.scope);
    this.initializeOutputs();
    ngOnInit();
    // Collect contents, insert and compile template
    attachChildNodes;
    linkFn = this.helper.compileTemplate();
    // Instantiate controller
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType) {
      this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
    } else if (bindToController) {
      throw new Error(`Upgraded directive \`${this.directive.name}` specifies `bindToController` but no controller.`);
    }
    // Set up outputs
    this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
this.bindOutputs(); // Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance); // Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
} // Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
} // Hook: $doCheck
if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
  const callDoCheck = () => this.controllerInstance.$doCheck();
  this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
  callDoCheck();
}

// Hook: $onChanges
if (!this.bindingDestination) {
  this.pendingChanges = changes;
} else {
  this.forwardChanges(changes);
}

// Hook: onDestroy
this.helper.onDestroy(this.$componentScope, this.controllerInstance);

// Initialize bindings
this.initializeBindings(directive: IDirective) {
  const btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject && Object.keys(directive.scope).length) {
    throw new Error(
      `Binding definitions on scope and controller at the same time is not supported.`);
  }

  const context = btcIsObject ? directive.bindToController : directive.scope;
  const bindings = new Bindings();

  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);
      switch (bindingType) {
        case '@':
        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
          // $onChanges().
          break;
        case '=':
          bindings.twoWayBoundProperties.push(propName);
          bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
          bindings.propertyToOutputMap[propName] = propName + 'Change';
          break;
        case '&':
          bindings.expressionBoundProperties.push(propName);
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(
            'Unexpected mapping $({ bindingType }) in $({ json }) in ${this.name} directive:.
          ');
      }
    });
  }

  return bindings;
}

// Initialize outputs
this.initializeOutputs();

// Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance); // Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
} // Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
} // Hook: $doCheck
if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
  const callDoCheck = () => this.controllerInstance.$doCheck();
  this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
  callDoCheck();
}

// Hook: $onChanges
if (!this.bindingDestination) {
  this.pendingChanges = changes;
} else {
  this.forwardChanges(changes);
}

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

// Initialize bindings
this.initializeBindings(directive: IDirective) {
  const btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject && Object.keys(directive.scope).length) {
    throw new Error(
      `Binding definitions on scope and controller at the same time is not supported.`);
  }

  const context = btcIsObject ? directive.bindToController : directive.scope;
  const bindings = new Bindings();

  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);
      switch (bindingType) {
        case '@':
        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
          // $onChanges().
          break;
        case '=':
          bindings.twoWayBoundProperties.push(propName);
          bindings.propertyToOutputMap[propName] = propName + 'Change';
          break;
        case '&':
          bindings.expressionBoundProperties.push(propName);
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(
            'Unexpected mapping $({ bindingType }) in $({ json }) in ${this.name} directive:.
          ');
      }
    });
  }

  return bindings;
}

// Initialize outputs
this.initializeOutputs();

// Require other controllers
const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance); // Hook: $onChanges
if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
} // Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
} // Hook: $doCheck
if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
  const callDoCheck = () => this.controllerInstance.$doCheck();
  this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
  callDoCheck();
}

// Hook: $onChanges
if (!this.bindingDestination) {
  this.pendingChanges = changes;
} else {
  this.forwardChanges(changes);
}

// Hook: ngOnDestroy
if (isFunction(this.unregisterDoCheckWatcher)) {
  this.unregisterDoCheckWatcher();
}
this.helper.onDestroy(this.$componentScope, this.controllerInstance);
Object.keys(changes).forEach
    propName => this.bindingDestination[propName] = changes[propName].currentValue;

if (isFunction(this.bindingDestination.$onChanges)) {
    this.bindingDestination.$onChanges(changes);
}

/**
 * @license
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 */

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

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/util';
import {UpgradeModule} from '@angular/upgrade/static';
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` library for hybrid upgrade apps that support AOT compilation

 * 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.

 * Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.

 * Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be used in an AngularJS template. See `downgradeComponent`.

 * Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See

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

 * Creation of an Angular hybrid application which contains both of the frameworks coexisting in a single application.

 * 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 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

 * 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`.

 * 6. 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`.

 * 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()`.

 * @usageNotes
 *
 * See also the [UpgradeModule#examples 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 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 whether they are instantiated.

 * 4. Angular components always execute inside the Angular framework codebase regardless of whether 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.

 * 1. This implies that the component bindings will always follow the semantics of the framework that owns the current template.

 * 2. The DOM attributes are parsed by the framework that owns the root component of the application.

 * 3. However the template binding syntax will always use the Angular style, e.g. square brackets (`\[\]`) for property binding.

 * 4. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.

 * 5. The `UpgradeModule` class This class is an `NgModule`, which you import to provide AngularJS core
services.

To bootstrap the hybrid upgrade application, the `UpgradeModule` class contains an instance method `bootstrap()` 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 `UpgradeModule`'s hybrid root injector, the `UpgradeModule`'s `NgZone`, and the `UpgradeModule`'s `UpgradeModule`.

The runtime instance of this class contains a method `bootstrap()` 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 `UpgradeModule`'s hybrid root injector, the `UpgradeModule`'s `NgZone`, and the `UpgradeModule`'s `UpgradeModule`.

Importing this `NgModule` will add providers for the core AngularJS services. It contains properties to access the `UpgradeModule`'s hybrid root injector, the `UpgradeModule`'s `NgZone`, and the `UpgradeModule`'s `UpgradeModule`.

There is a specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:

```typescript
import { NgModule, NgZone, Injector, $injector, UpgradeModule, CoreModule } from '@angular-upgrade/core';

@NgModule({
  providers: [AngularJSService, CoreModule]
})
export class UpgradeModule {
  // ...

  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';
    // Create an ng1 module to bootstrap
    const initModule = angularModule(INIT_MODULE_NAME, []);
    // Set up the testability service
    const ng1Testability = injector.get(Testability);
    // 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[]) => {
  return this.ngZone.runOutsideAngular(() => {
    return intervalDelegate((...args: any[]) => {
      this.ngZone.run(() => fn(...args));
    }, delay, count, invokeApply, ...pass);
  });
}

(wrappedInterval as any)['cancel'] = intervalDelegate.cancel;

return wrappedInterval;

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

export {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 only re-exports
// items to appear in the public api. Keep it that way.
export * from './public_api';

// Generated
bundle index. Do not edit.
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,
  rootScopeFactory as ɵangular_packages_upgrade_static_static_b} from
  './src/upgrade_module';
Open Source Used In MSX Managed Device Service Pack 3.9.0

```plaintext
//ACAC;iBAAiB,CAAC;C0CAACnC,0AAO,gBAAGB,yBAAC;4CAAC,cAAAc;iDAAd,UAAc,EAAd,qBAAc,EAAd,IA
Ac;gDAAd,yBAAc;::::;4CAKtC,UAUk,CAAC,cAQA,QAkCAAC,MAAM,CAC,C,GAAG,CAAC,cAAAc;MAAM,OA
A,EAAE,wBAAIL,IAAI,KAAAC,CAAC,C,CAAc,EAAE,CAAC,C,CAAC;gCAAc3D,EAAE,KAAAC,EAAE,KAAAC
,WAAW,GAkK,IAAIL,GAEE;iCAAxC,CAAC,CAAC;CAAC;6BACJ,CAAC;4BAEL,eAAuB,CAAC,QAAQ,CAAC,GA
A,G,BAAGB,CAAC,MAAM,CAC,C;4BAAC7D,0AAO,eAAe,CAC,C;BACxB;4BACF,CAAC;iBACj;AACF;
SACF,CAAC,aAcE,GAAG,CAAC,YACH,SAAS,YACT,UAAC,SA2B;gBAC1B,KAAL,CAAC,SAAS,GAAG,SA
AS,CAAC::;gBAC3B,kBAAKB,CAAC,SAAS,CAAC,CAAC;gBAAGB,KAAI,CAAC,QAAQ,CAAC,GAAG,CAA
C,SAAS,CAAC,C;gBAAGB7C,OAAc,CAAC,G,SAO,CAAC,CAAC,IAAM,CAAC,aAAa,CAAC,YAYC,Y
ACEAC,KAAL,CAAC,QAQQ,CAAC,CAAC;::;4BAC3E,UAUU,CAAC,aACO,BACT,IAAM,UAUU,GAAG,SAAS
C,CAAC,GAAG,CAAC,YAYC,CAAC,CAAC;4BACJ,C,IAAM,YAYC,GAAG,KAAL,CAAC,MAAM,CAAC,GAAGB
,CAAC,SAAS,CAAC,;wBAC1D,IAAI,UAAC,CAAC,0AAO,EAEE,4BACfB,IAAIL,SAAS,EAEE,EAEE,gCAfC
,AOAO,CAAC,IAAI,CACR,wiAAwL,CAAC,CAAC;6BAC/I,4BAED,0AAO,UAAC,CAAC,UAUU,EAEE,CAAC;
YBAChC;wBAED,OAOG,UAUU,CAAC,0AAO,EAEE,CAAC,qBAC7B,CAAC,CAAC;4BAC;CAAC,oeBACH,UAUU,CAAC,G
AAG,CAAC,UAUU,EAEE,cAQA,YAYC,CAAC,WAAW,EAEE,CAAC,EAEE,CAAC,CAAC;iBACnE,EAEE,C
AAC,CAAC,CAAC;acACP,SACF,CAAC,CAAC;QAEX,IAAM,AAAm,GAAIL,MAAc,C
AAC,SAAS,CAAC,CACQJCj,AAAs,CAAC,CAAC;GAA,SAAS,CAAC;4QAC1C,IAAI,CAAC,MAAM,CAA
C,GAAG,CAAC,CAAC;eAQQ,SAS,CAACLSAO,EAEE,CAAC,AAAm,CAAC,IAAI,CAAC,EAEE,MAAM,CAAC;
CAAC,EAEE,CAAC,CAAC;4QAC7E,IAAI,AAAs,CAAC,CAAC;YACjC,IAAM,YBAAuB,GAAc,aAAa,CA
A,C,CAAC,YAC1E,IAAM,QAAQ,GAAG,IAAI,CAAC,MAAM,CAAC;YAC3B,AAAs,CAAC,CAAC,G
AAGB;iBAI/B,gBAHCC,IAAI,IAAI,GAAG,SAAS,CAAC;gBACrB,AAAs,CAAC,CAAC;4BACfB,AAAs,CAAC;
YACxD,0AAO,QAAM,CAAC,GAAG,CAAC,cAAM,0AAO,aAAa,CAAC,CAAC,IAAM,EA
AE,IAAI,CAAC,GAA,CAAC,CAAC;AcAC1E,CAAC,SAAC,KACF;1AAPU,aAAs,QACzdB,QAAQ,CAAC,EAAC
,0AAE,CAAC,iBAI/b,CAAC,EAAC,CAAC;YCAW3B,QAQQ,YAEH,SAAM,0AZd,AAAs,CAACJzB;IAA
D,0BAAC;CAr1D;_;ACjIA;;;;;;AAQA,AASA,iFAAaF;_;ACjBjF;;;;;;GAMG;_;ACNH;_;GAEa;:"

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static.js.map
No license file was found, but licenses were detected in source scan.

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */
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4148
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgradestatic-testing.umd.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgradestatic-testing.umd.min.js
No license file was found, but licenses were detected in source scan.
null

$commitViewValue(): void;

$setViewValue(value: any, trigger: string): void;

$viewValue: any;

$parsers: Function[];

$formatters: Function[];

$validators: {
  key: string;
};

$asyncValidators: {
  key: string;
};

$viewChangeListeners: Function[];

$setError: void;

$error: Object;

$pending: Object;

$untouched: boolean;

$touched: boolean;

$pristine: boolean;

$dirty: boolean;

$valid: boolean;

$invalid: boolean;

$name: string;

$nodeName: string;

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;

noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) => IInjectorService;
  module: (prefix: string, dependencies?: string[]): IModule;
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService;
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService;
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg;

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) => angular.bootstrap(e, modules, config);

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

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

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

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

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_MODULE_NAME = '$$UpgradeModule';

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 */

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4151

4151
PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  parentAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }
}

const DOWNGRADED_MODULE_COUNT_KEY = 'downgradedModuleCount';
const UPGRADE_APP_TYPE_KEY = 'upgradeAppType';

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

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

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject !: (error?: any) => void;
}

export 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
```javascript
for (let i = 0; i < inputs.length; i++) {
    const input = new PropertyBinding(inputs[i].propName,
        inputs[i].templateName);
    let expr: string = null;
    if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
            let prevValue = INITIAL_VALUE;
            return (currValue: any) => {
                // Initially, both `$observe()` and `$watch()` will call this function.
                if (!strictEquals(prevValue, currValue)) {
                    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;
        unwatch = null;
        observeFn(attrs[input.attr]:
            () => unwatch());
        unwatch = null;
        observeFn(attrs[input.attr]:
            () => unwatch());
    }
    else if (input.bindAttr) {
        expr = attrs[input.bindAttr];
    }
    else if (input.bracketAttr) {
        expr = attrs[input.bracketAttr];
    }
    else if (input.bindonAttr) {
        expr = attrs[input.bindonAttr];
    }
    else if (input.bracketParenAttr) {
        expr = attrs[input.bracketParenAttr];
    }
    if (expr != null) {
        const watchFn =
            (prop => (currValue: any, prevValue: any) =>
                this.updateInput(prop, prevValue, currValue))(input.prop);
        this.componentScope.$watch(expr, watchFn);
    }
}

// Invoke `ngOnChanges()` and Change Detection
when necessary)
const detectChanges = () => this.changeDetector.detectChanges();
const prototype =
    this.componentFactory.componentType.prototype;
this.implementsOnChanges = !!(prototype &&
    (<OnChanges>prototype).ngOnChanges);
this.componentScope.$watch(() => this.componentChangeCount,
    this.wrapCallback(() => {
        // Invoke `ngOnChanges()`
        if (this.implementsOnChanges) {
            this.inputChanges = {};
            (<OnChanges>this.component).ngOnChanges(this.inputChanges);
            this.viewChangeDetector.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.
// (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
if (manuallyAttachView || !propagateDigest) {
    let unwatch: Function = null;
    unwatch = null;
    const appRef =
        this.parentInjector.get<ApplicationRef>(ApplicationRef);
    appRef.attachView(this.componentRef.hostView);
}
```

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```typescript
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;
}

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

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  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++) {
    if (ngContentSelectors[i] === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(element, ngContentSelectors[i])) {
        ngContentIndices.push(i);
      }
    }
  }

  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {
    ngContentIndices.push(wildcardNgContentIndex);
  }
  return ngContentIndices.length ? ngContentIndices[0] : null;
}

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

---

```typescript
/**
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 */

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

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from
```
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```typescript
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*

 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called 'ng2Heroes' that needs to be made available in AngularJS templates.

 * @example upgrade/static/ts/full/module.ts region="ng2-heroes\\"}
 * * We must create an AngularJS directive 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.
 * - `propagateDigest?: boolean`: Whether to perform [@link ChangeDetectorRef#detectChanges change detection] on the component on every\*.[�]
 * - `inputs?: string[]`: @deprecated since v4. This parameter is no longer used
 * - `outputs?: string[]`: @deprecated since v4. This parameter is no longer used
 * - `selectors?: string[]`: @deprecated since v4. This parameter is no longer used
 *
 * @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;`
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>;

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, 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 the `NgModule` is already bootstrapped, we just get its injector (we don’t bootstrap again).

Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don’t bootstrap again).

Note 2: It is possible that (while there are multiple downgraded modules) this downgraded component and its parent component both belong to the same `NgModule`.

In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different `NgModule`s. That doesn’t really affect anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve `ComponentFactoryResolver` from either one will return the same instance. If there is a parent component, use its injector as parent injector.

If this is a `top-level` Angular component, use the module injector.

const finalParentInjector = parentInjector || moduleInjector;

If this is a `top-level` Angular component or the parent component may belong to a different `NgModule`, use the module injector for module-specific dependencies.

If there is a parent component that belongs to the same `NgModule`, use its injector.

const finalModuleInjector = moduleInjector || parentInjector;

const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this component belongs to.
  const componentFactoryResolver: ComponentFactoryResolver = moduleInjector.get(ComponentFactoryResolver);
  const 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 (!isNgUpgradeLite) {
    if (ngZone) {
      ngZone.getAsync().then((parentInjector: Injector, mInjector: Injector) => {
        if (!ngZone) { ngZone = pInjector.get(NgZone); }
      });
    }
  }

  doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this component belongs to.
    const componentFactoryResolver: ComponentFactoryResolver = new ComponentFactoryResolver(resOLVEComponentFactory(info.component) !, injector);

    if (!componentFactory) { throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`) }

    const injectors = new array();

    facade.createComponent(projectableNodes) facade.setInputs(isNgUpgradeLite, info.propagateDigest) facade.setOutputs() facade.registerCleanup();

    if (ranAsync) {}

    if (!isNgUpgradeLite) {
      if (ngZone) { ngZone.getAsync().then((parentInjector: Injector, mInjector: Injector) => {
        if (!ngZone) { ngZone = pInjector.get(NgZone); }
      });
    }
  }

  doDowngrade = (plInjector: Injector, mInjector: Injector) => {
    if (!ngZone) { ngZone = pInjector.get(NgZone); }
  };

  wrapCallback() => doDowngrade(plInjector, mInjector);
=> downgradeFinish(pInjector, mInjector));
        ranAsync = true;
    }
  };

  // bracket-notation because
  of closure - see #1444
  directiveFactory['$injector'] = [$COMPILe, $INJECTOR, SPARSe];
  return directiveFactory;
})

/**
 * Synchronous promise-like object to wrap parent injectors.
 * to preserve the synchronous nature of AngularJS’s SCompile.
 * An unclass 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.
 *     this.element.data !(this.injectorKey, injector);
 *     // Release the element to prevent memory leaks.
 *     this.element = null !;
 *     // Resolve the promise:
 *     super.resolve(injector);
 *   }
 * };

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

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

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

/**
 * @description
 *
 * A helper function to
 * allow an Angular service to be accessible from AngularJS.
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is
 * provided in an NgModule
 * that will be part of the upgrade application. For example, let's assume we have
 * defined `HeroesService` and that we have included this in our upgrade app
 * Module
 *
 * and that the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned
 * by a call to `downgradeModule()`.
 * It is the module, whose injector will
 * be used for instantiating the
 * injectable.
 *
 * For example, it is
 * _OK_ to use a downgraded service in an
 * upgraded component that is only used in 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.
 *
 * <div class="alert is-important">
 *
 *   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 in 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.
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param
 * downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned
 * by a call to `downgradeModule()`.
 * It is the module, whose injector will
 * be used for instantiating the
 * injectable.
 *
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular
 * module.
 * returns a [factory function](https://docs.angularjs.org/api/di) that can be
 * used
 * to register the service on an AngularJS module.
 * *publicApi
 * *export function
downgradeInjectable(token: any, downgradedModule: string = "");

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

  export function downgradeInjectable(token: any, downgradedModule: string = ")
  {;

    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;
    validateInjectionKey(injector, downgradedModule, injectorKey, attemptedAction);
    const injector: Injector = injector.get(injectorKey);
    return injector.get(token);
  }

  directiveFactory['$injectable'] = [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.
      this.element.data !(this.injectorKey, injector);
      // Release the element to prevent memory leaks.
      this.element = null !;
      // Resolve the promise:
      super.resolve(injector);
    }
  }

  directiveFactory['$injector'] = [$COMPILE, $INJECTOR, $PARSE];
  return directiveFactory;

  /**
attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
  // Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if
  // `Stemplate` is empty. Since the transcluded content comes from Angular,
not AngularJS,\n  // there will be no transclusion scope here.\n  // Provide a dummy `scope.$destroy()` method
to prevent `cloneAttachFn` from throwing.\n  scope = scope ?? {}; // `Stemplate` is \n  return cloneAttachFn (!Stemplate, scope);\n};\n
let $template = contentChildNodes;\n
if (transclude) {
  const slots = Object.create(null);\n  const filledSlots = Object.create(null);\n  let $template = [];\n  const slotMap = Object.create(null);\n
  Object.keys(transclude).forEach(slotName => {
    let selector = transclude[slotName];\n    const optional = selector.charAt(0) === '?';\n
    slotMap[selector] = slotName;\n    slots[slotName] = null;\n    if (transclude[slotName] === '\n' || !filledSlots[slotName]) {
      filledSlots[slotName] = optional; // Consider optional slots as filled;\n      // Add the matching elements into their slot.\n
      const nodes = contentChildNodes.filter(node =>
        directNorm(node.nodeName.toLowerCase()) && node
      );\n      if (nodes.length > 0) {
        $template.push(nodes);\n      } else {
        filledSlots[slotName] = true;\n        slots[slotName] = slots[slotName] || [];\n        slots[slotName].push(node);\n      } else {
        throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);\n      }
    }
  });\n
  Object.keys(slots).forEach(slotName => {
    const nodes = slots[slotName];\n    slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
      return cloneAttach (!nodes, scope);\n    };
  });\n
  $template.forEach(node => {
    if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
      node.nodeValue = '\u200C';\n    }
  });\n
  return attachChildrenFn;\n};\n
resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire =
    this.getDirectiveRequire();\n
  const requiredControllers = this.resolveRequire(directiveRequire);

  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
    const requiredControllersMap = requiredControllers as {
      [key: string]: IControllerInstance;\n    };

    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];\n    });\n
    return requiredControllers;\n  } else if (Array.isArray(requiredControllers)) {
    return requiredControllers.map(req => this.resolveRequire(req));\n  } else if (typeof requiredControllers === 'string') {
    return this.resolveRequire(requiredControllers);\n  } else {
    return null;\n  }

  const nodeValue = '\u200C';\n
  Object.keys(filledSlots).forEach(slotName => {
    if (!filledSlots[slotName]) {
      throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);\n    }
  });\n
  Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
    const nodes = slots[slotName];\n    slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
      return cloneAttach (!nodes, scope);\n    };
  });\n
  $template.forEach(node => {
    if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
      node.nodeValue = '\u200C';\n    }
  });\n
  return attachChildrenFn;\n};\n
resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire =
    this.getDirectiveRequire();\n
  const requiredControllers = this.resolveRequire(directiveRequire);

  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
    const requiredControllersMap = requiredControllers as {
      [key: string]: IControllerInstance;\n    };

    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];\n    });\n
    return requiredControllers;\n  } else if (Array.isArray(requiredControllers)) {
    return requiredControllers.map(req => this.resolveRequire(req));\n  } else if (typeof requiredControllers === 'string') {
    return this.resolveRequire(requiredControllers);\n  } else {
    return null;\n  }

  const nodeValue = '\u200C';\n
  Object.keys(filledSlots).forEach(slotName => {
    if (!filledSlots[slotName]) {
      throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);\n    }
  });\n
  Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
    const nodes = slots[slotName];\n    slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
      return cloneAttach (!nodes, scope);\n    };
  });\n
  $template.forEach(node => {
    if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
      node.nodeValue = '\u200C';\n    }
  });\n
  return attachChildrenFn;\n};
const match = require.match(REQUIRE_PREFIX_RE) ||
const inheritType = match[1] || match[3];
const name = require.substring(match[0].length); const isOptional = !!match[2];
const searchParents = !!inheritType; const startOnParent = inheritType === '^^';
const ctrlKey = controllerKey(name); const elem = startOnParent ? this.$element.parent() : this.$element;

const elem.inheritedData(ctrlKey); elem.data(ctrlKey);

if (!value && !isOptional) {
  throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
}

return value;
}

else {
  throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}': ${require}`);
}

}

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

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

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

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

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 '../../common/src/angular1';
import {$SCOPE} from '../../common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../common/src/upgrade_helper';
import {isFunction, strictEquals} from '../../common/src/util';

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 inline 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 !== 'object';
    if (btcIsObject && Object.keys(this.directive).length) {
      throw new Error(`Binding definitions on scope and controller at the same time are not supported.`);
    }

    const context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;

    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName]; const bindingType = definition.charAt(0);
        const bindingOptions = definition.charAt(1); const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

        const switchCase = switch(bindingType) {
          case '@':
          case '<':
            this.inputs.push(attrName);
            this.inputsRename.push(attrName);
            this.propertyMap[attrName] = propName;
            break;
          case '=':
            this.properties.push(attrName);
            this.propertyMap[attrName] = propName;
            break;
          case '$':
            this.outputs.push(attrName);
            this.propertyMap[attrName] = propName;
            break;
        };
      });
    } else {
      throw new Error(`Unrecognized 'bind-to' syntax on directive '${this.name}': ${this.directive}`);
    }
  }

  bindToController(context: IControllerInstance, scope: IScope) {
    // Note: There is a bug in TS 2.4 that prevents us from inline this into @Directive
    // TODO(tbosch): find or file a bug against TypeScript for this.
    const switchCase = switch(context) {
      case '@':
      case '<':
        this.inputs.push(context);
        break;
      case '=':
        this.outputs.push(context);
        break;
      case '$':
        this.properties.push(context);
        break;
    };
  }

  // ...
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```javascript
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}'.`;

*/

static resolve(exports: any[] = []): Promise<any> {
  const promis:
    Promise<string|number>[] = {}
    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(exportedComponent.template = template);`;
    });
    return Promise.all(promises);`

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]: 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 EventEmitter<any>();
      if (this.propOuts.indexOf(outputs[j]) === -1)
        {this.setComponentProperty(
          outputs[j], (emitter => (value: any) =>
            emitter.emit(value))(emitter));
      }
    }

    for (let k = 0; k < propOuts.length; k++) {
      this.checkLastValues.push(INITIAL_VALUE);
    }

    // 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);
      this.destinationObj =
        this.controllerInstance;
    } else {
      this.destinationObj = this.componentScope;
    }

    // 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, null !, {parentBoundTranscludeFn: attachChildNodes});
    }

    if (postLink) {
      postLink(this.componentScope, null !, {postLink: typeof link == 'object' &
        & link.pre, pre: null });
    }

    // Hook:
    this.controllerInstance && isFunction(this.controllerInstance.$onInit)
      ? this.controllerInstance.$onInit() : null;

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' &
      & link.pre, pre: null;
    const postLink = typeof link == 'object' &
      & link.post, post: null;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;

    if (preLink) {
      preLink(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});
    }

    if (postLink) {
      postLink(this.componentScope, null !, {postLink: typeof link == 'object' &
        & link.pre, pre: null });
    }

    // Hook:
    this.controllerInstance.$postLink;

    if (isFunction(this.destinationObj && isFunction(this.destinationInstance.$onChanges))
      ? this.destinationObj.$onChanges
        (!ng1Changes, !ng2Changes, !ng2Check);  
      const destinationObj = this.destinationObj;
    }

    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propOuts;
    const checkProperties:
      checkProperties.forEach((propName, i) => {
        value = destinationObj[propName];
        const last = lastValues[i];
        if (!strictEquals(last, value)) {
          eventEmitter: EventEmitt
any)(propsOuts[i]);
  eventEmitter.emit(lastValues[i] = value);
}

if (this.controllerInstance &&
isFunction(this.controllerInstance.SdoCheck)) {
  this.controllerInstance.SdoCheck();
}

ngOnDestroy() {
  this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

setComponentProperty(name: string, value: any) {
  this.destinationObj[this.propertyMap[name]] = value;
}

/**
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 *
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 */

import {Compiler, CompilerOptions, Injector, NgModule, 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
 *    (See [UpgradeAdapter#bootstrap()])
 * 4. Angular component can be downgraded to an AngularJS component directive. This creates
 *    an AngularJS directive, which bootstraps the Angular component directive in that location.
 * 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.

 * @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.
 * There are two independent frameworks running in a single application, each framework treats
 * the other as a black box.
 *
 * ### Example
 *
 * ```
 * const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
 * const module = angular.module('myExample', []);
 * module.directive('ng2Comp', adapter.upgradeNg1Component('ng1Hello'));
 * module.directive('ng1Hello', function() {
 *   return {
 *     scope: { title: '=' },
 *     template: '<ng1-hello title="{{title}}">transclude</ng1-hello>',
 *     directives: [Ng2Component],
 *     controller: ['$scope', '$controller', '$element', '$attrs', '$transclude', 'controllerKey']
 *   };
 *   return controllerKey.$get('$scope', ['controllerKey'])
 * })(module);
 * adapter.bootstrap(document.body, ['myExample']);
 * ```
 */

```
The code provided is for an Angular module that facilitates the integration of Angular components into AngularJS applications. The `UpgradeAdapter` class is used to down upgrade Angular components to AngularJS, and vice versa. The class allows Angular components to be used from AngularJS and vice versa, providing a bridge between the two frameworks.

The `downgradeNg2Component` method is used to create an AngularJS Directive Definition Factory from an Angular component. It instantiates the component within the AngularJS template and wraps it in a way that AngularJS can control the element.

The `upgradeNg1Component` method is used to create an Angular component from an AngularJS Directive. It allows AngularJS components to be used within an Angular application, linking the AngularJS component to its corresponding Angular component.

The `upgradeNg2Adapter` and `downgradeNg2Adapter` classes provide the necessary logic to handle the conversion of components between Angular and AngularJS. These classes are crucial for ensuring a smooth transition between the two frameworks, allowing developers to build applications that leverage the strengths of both Angular and AngularJS.

Overall, the provided code demonstrates the complexity and thoughtfulness required to create a seamless bridge between these two popular front-end frameworks, allowing developers to choose the best tools and technologies for their project needs.
`replace`: not supported.
- `require`: supported.
- `restrict`: must be set to `E`.
- `scope`: supported.
- `template`: supported.
- `templateUrl`: supported.
- `terminal`: ignored.
- `transclude`: supported.
- `innerHTML`: supported.
- `ngModel`: supported.
- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.

- `ngIf`: supported.
- `ngShow`: supported.
- `ngHide`: supported.
- `ngClass`: supported.
- `ngStyle`: supported.
- `ngTransclude`: supported.
- `ngTransclude`: supported.
UpgradeAdapterRef

this.declareNg1Module(modules); const upgrade = new UpgradeAdapterRef();

// Make sure resumeBootstrap() only exists if the current bootstrap is deferred
const windowAngular = (window as any /** TODO #???? */)["angular"];
windowAngular.resumeBootstrap = undefined;
this.ngZone.run(() => {
  bootstrap(element, [this.ng1Module.name], {});
})

const ng1BootstrapPromise = new Promise((resolve) => {
  if (windowAngular.resumeBootstrap) {
    const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
    windowAngular.resumeBootstrap = function() {
      originalResumeBootstrap.apply(this, arguments);
      resolve();
    }
  } else {
    resolve();
  }
})

Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(([ng1Injector]) => {
  angularElement(element).data(!controllerKey(INJECTOR_KEY), this.moduleRef.injector);
  this.moduleRef!.injector.get<NgZone>(NgZone).run(() => { (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); });
})

/**
 * Allows AngularJS service to be accessible from Angular.
 *
 * @usageNotes
 * ### Example
 *
 * ```
 * 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: Example = ref.ng2Injector.get('example');
 *   ...
 * })
 * 
 * ```
 * 
 * @param name
 * @param options
 * 
 * @returns The AngularJS upgrade module that is declared by this method
 * 
 * @usageNotes
 * ### Example
 *
 * ```
 * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
 * upgradeAdapter.declareNg1Module(['heroApp']);
 * ```
 */
  private declareNg1Module(modules: string[] = []): IModule {
    const delayApplyExps: Function[] = [];
    let original$applyFn: Function;
    let rootScopePrototype: any;
    let rootScope: IRootScopeService;
    
    const upgradeAdapter = this;
    const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
    
    const platformRef = platformBrowserDynamic();
    this.ngZone = new NgZone({enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec')});
    this.ng2BootstrapDeferred = new Deferred();
    
    ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)
    .factory(INJECTOR_KEY, () => this.moduleRef.injector)
    .factory(LAZY_MODULE_REF, [INJECTOR_KEY, (injector: Injector) => {
      return injector.get(Injector);
    }]
    .constant(NG_ZONE_KEY, this.ngZone)
    .factory(COMPILER_KEY, () => this.moduleRef.injector.get(Compiler))
    .config([],
      ['$provide', '$injector',
        (provide: IProvideService, ng1Injector: IInjectorService) => {
          provide.decorator($ROOT_SCOPE, {});
        }]
    )
(rootScopePrototype.hasOwnProperty('$$apply')) {
  original$applyFn = rootScopePrototype.$$apply;
  rootScopePrototype.$$apply = (exp: any) => delayApplyExps.push(exp);
} else {
  throw new Error('Failed to find $$apply on $$rootScope!');
}

return rootScope = rootScopeDelegate;

if (ng1Injector.has($$TESTABILITY)) {
  const originalWhenStable = upgradeAdapter.moduleRef.injector.get(Testability);
  if (ng2Testability.isStable()) {
    callback.apply(this, arguments);
  } else {
    ng2Testability.whenStable(newWhenStable.bind(this, callback));
  }
}

provide.decorator($$TESTABILITY, {
  'delegate',
  function(testabilityDelegate) {
    // Cannot use arrow function below because we need the context
    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;
  }
});

if (ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
  UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector).then(() => {
    // Note: There is a bug in TS 2.4 that prevents us from inlining this into @NgModule
    // TODO(tbosch): find or file a bug against TypeScript for this.
    const ngModule = {
      providers: [{provide: $INJECTOR, useFactory: () => ng1Injector},
        {provide: $COMPILE, useFactory: () => ng1Injector.get($COMPILE)},
        this.upgradedProviders
      ],
      imports: [resolveForwardRef(this.ng2AppModule)],
      entryComponents: this.downgradedComponents
    }; // At this point we have ng1 injector and we have prepared
    // ng1 components to be upgraded, we now can bootstrap ng2.
    @NgModule({jit: true, ...ngModule})
    class DynamicNgUpgradeModule {
      constructor() {}
      ngDoBootstrap() {}
    }
    platformRef.bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions!, {ngZone: this.ngZone}])
      .then((ref: NgModuleRef<any>) => {
        this.moduleRef = ref;
        this.ngZone.run(() => {
          if (rootScopePrototype) {
            rootScopePrototype.$$apply = original$applyFn;  // restore original $$apply
            while (delayApplyExps.length) {
              rootScope.$apply(delayApplyExps.shift());
            }
            rootScopePrototype = null;
          }
        });
      })
      .then(() => this.ng2BootstrapDeferred.resolve(ng1Injector), onError)
      .then(() => {
        let subscription = this.ngZone.onMicrotaskEmpty.subscribe({
          next: () => {
            if (isDevMode()) {
              console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');
            }
            return rootScope.$evalAsync(() => {});
          }
        });
        rootScope.$on('$destroy', () => {subscription.unsubscribe();});
        return rootScope.$destroyAsync(() => {});
      });
    return ng1Module;
  })
}

/**
 * Synchronous promise-like object to wrap parent injectors, * to preserve the synchronous nature of AngularJS's $compile.
 *
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
 * 
 */
class ParentInjectorPromise {
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    element.data!(controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;
    this.element.data!(controllerKey(INJECTOR_KEY), this.injector);
    then(callback: (injector: Injector) => any) {
      if (this.injector) {
        callback(this.injector);
      } else {
        this.callbacks.push(callback);
      }
    }
  }
}

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@publicApi
*/
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    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();
  }
}

/**
 * @license
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 *
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 */

/**
 * @module
 * @description
 * Entry point for all public APIs of this package. allowing Angular 1 and Angular 2+ to run side by side in the same application.
 */
export * from './index';

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

export * from './public_api';

export * from './common/src/version';
export {UpgradeAdapter, UpgradeAdapterRef} from './dynamic/src/upgrade_adapter';

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

/**
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 */

// This file is not used to build this module. It is only used during editing and during build for verification. `ngc` replaces this file with production index.ts when it rewrites private symbols.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esms5/upgrade.js.map

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

["version":3,"sources":null,"names":null,"re"
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INCLUDES WITHOUT LIMITATION ANY IMPLIED WARRANTIES OR CONDITIONS OF TITLE,
(see https://github.com/angular/angular/issues/30050).\n var module_ = function (prefix, dependencies) {\n
return angular.module(prefix, dependencies);\n };\n var element = (function (e) { return angular.element(e); });\n
element.cleanData = function (nodes) { return angular.element.cleanData(nodes); };\n var injector = function
(modules, strictDi) { return angular.injector(modules, strictDi); };\n var resumeBootstrap = function () { return
angular.resumeBootstrap(); };\n var getTestability = function (e) { return angular.getTestability(e); };\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
$COMPILE = '$compile';\n var $CONTROLLER = '$controller';\n var $DELEGATE = '$delegate';\n var
$EXCEPTION_HANDLER = '$exceptionHandler';\n var $HTTP_BACKEND = '$httpBackend';\n var
$INJECTOR = '$injector';\n var $INTERVAL = '$interval';\n var $PARSE = '$parse';\n var $PROVIDE =
'$provide';\n var $ROOT_SCOPE = '$rootScope';\n var $SCOPE = '$scope';\n var $TEMPLATE_CACHE =
'$templateCache';\n var $TEMPLATE_REQUEST = '$templateRequest';\n var $$TESTABILITY =
'$$testability';\n var COMPILER_KEY = '$$angularCompiler';\n var
DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';\n var
GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';\n var INJECTOR_KEY =
'$$angularInjector';\n var LAZY_MODULE_REF = '$$angularLazyModuleRef';\n var NG_ZONE_KEY =
'$$angularNgZone';\n var UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';\n var
REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;\n var REQUIRE_NG_MODEL = '?ngModel';\n var
UPGRADE_MODULE_NAME = '$$UpgradeModule';\n\n /**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n */\n /**\n * A `PropertyBinding` represents a mapping
between a property name\n * and an attribute name. It is parsed from a string of the form\n * `\"prop: attr\"`; or
simply `\"propAndAttr\" where the property\n * and attribute have the same identifier.\n */\n var
PropertyBinding = /** @class */ (function () {\n
function PropertyBinding(prop, attr) {\n
this.prop =
prop;\n
this.attr = attr;\n
this.parseBinding();\n
}\n
PropertyBinding.prototype.parseBinding =
function () {\n
this.bracketAttr = \"[\" + this.attr + \"]\";\n
this.parenAttr = \"(\" + this.attr + \")\";\n
this.bracketParenAttr = \"[(\" + this.attr + \")]\";\n
var capitalAttr = this.attr.charAt(0).toUpperCase() +
this.attr.substr(1);\n
this.onAttr = \"on\" + capitalAttr;\n
this.bindAttr = \"bind\" + capitalAttr;\n
this.bindonAttr = \"bindon\" + capitalAttr;\n
};\n
return PropertyBinding;\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
DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)[:\\-_]/i;\n var DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\\_]+(.)/g;\n function onError(e) {\n
// TODO: (misko): We seem to not have a stack trace here!\n
if
(console.error) {\n
console.error(e, e.stack);\n
}\n
else {\n
// tslint:disable-next-line:noconsole\n
console.log(e, e.stack);\n
}\n
throw e;\n }\n function controllerKey(name) {\n
return '$' + name + 'Controller';\n }\n function directiveNormalize(name) {\n
return
name.replace(DIRECTIVE_PREFIX_REGEXP, '')\n
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP,
function (_, letter) { return letter.toUpperCase(); });\n }\n function getTypeName(type) {\n
// Return the
name of the type or the first line of its stringified version.\n
return type.overriddenName || type.name ||
type.toString().split('\\n')[0];\n }\n function getDowngradedModuleCount($injector) {\n
return
$injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n
0;\n }\n function
getUpgradeAppType($injector) {\n
return $injector.has(UPGRADE_APP_TYPE_KEY) ?
$injector.get(UPGRADE_APP_TYPE_KEY) :\n
0 /* None */;\n }\n function isFunction(value) {\n
return typeof value === 'function';\n }\n function validateInjectionKey($injector, downgradedModule,
injectionKey, attemptedAction) {\n
var upgradeAppType = getUpgradeAppType($injector);\n
var
downgradedModuleCount = getDowngradedModuleCount($injector);\n
// Check for common errors.\n
switch (upgradeAppType) {\n
case 1 /* Dynamic */:\n
case 2 /* Static */:\n
if

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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 \`upgradeModule()\')\n' +
            '});
    break;
    case 3 /* Lite */:
        // the downgradeModuleCount is only meaningful
        // when downgrading components and injectables.
        if (!downgradedModule && (downgradedModuleCount
            >= 2)) {
            throw new Error("Error while \" + attemptedAction + \": 'downgradedModule' not
            specified.\n" +
                'This application contains more than one downgraded Angular module, thus you need to ' +
                'always specify $downgradedModule$ when downgrading components and injectables.\n' +
                '});
        break;
        case 4 /* Full */:
            throw new Error("Error while \" + attemptedAction + \": 'downgradedModule' not
            specified.\n" +
                'This application contains more than one downgraded Angular module, thus you need to ' +
                'always specify $downgradedModule$ when downgrading components and injectables.\n' +
                'Did you forget to downgrade an Angular module or include it in the AngularJS \``application?\``?\n' +
                '});
        default:
            throw new Error("Error while \" + attemptedAction + \": Not a valid '@angular/upgrade' application.\n" +
                'Did you forget to downgrade an Angular module or include it in the AngularJS \``application?\``?\n' +
                '});
    }
    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 `ng-model`\n *     compatibility.\n */
function supportsNgModel(component) {
    return typeof component.writeValue === 'function' &&
        typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it
 * exists) to the component\n * (if it implements the needed subset of the 'ControlValueAccessor' interface).\n */
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.\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 */
function strictEquals(val1, val2) {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

/**
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var INITIAL_VALUE = {
    __UNINITIALIZED__: true
};

var DowngradeComponentAdapter = /** @class */ (function () {
    function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
        $parse, componentFactory, wrapCallback) {
        this.element = element;
        this.attrs = attrs;
        this.scope = scope;
        this.ngModel = ngModel;
        this.parentInjector = parentInjector;
        this.$injector = $injector;
        this.$compile = $compile;
        this.$parse = $parse;
        this.componentFactory = componentFactory;
        this.wrapCallback = wrapCallback;
        this.componentScope = scope;
        this.ngModel = ngModel;
        this.parentInjector = parentInjector;
        this.Sinjector = $injector;
        this.$compile = $compile;
        this.$parse = $parse;
        this.componentScope = componentScope;
        this.componentFactory = componentFactory;
        this.wrapCallback = wrapCallback;
        this.implementsOnChanges = false;
        this.inputChangeCount = 0;
        this.inputChanges = [];
        this.componentScope = scope;
        this.DowmgradeComponentAdapter.prototype.compileContents = function () {
            var _this = this;
            var compiledProjectableNodes = [];
            var var executableNodes = [];
            var linkFns = projectableNodes.map(function (nodes) {
                return
            });
            var this.element.empty();
            linkFns.forEach(function (linkFn) {
                linkFn(this.element); linkFns.forEach(function (linkFn) {
                    linkFn(this.element, function (clone) {
                        thisCompiledProjectableNodes.push(clone); this._this.element.append(clone); return
                    });
                });
                var compiledProjectableNodes = [];
                var linkFns = projectableNodes.map(function (nodes) {
                    return
                });
                return
            });
            var childInjector = core.Injector.create([ providers: providers, parent: this.parentInjector, name: 'DowmgradeComponentAdapter' ]);
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
        }
    }());

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this.componentRef.instance;  // testability hook is commonly added during component bootstrap in
// packages/core/src/application_ref/bootstrap()  // in downgraded application, component creation will take
place here as well as adding the
// testability hook.  var testability =
this.componentRef.injector.get(core.Testability, null);  if (testability) {
this.componentRef.injector.get(core.TestabilityRegistry)
.registerApplication(this.componentRef.location.nativeElement, testability);} }]

hookupNgModel(this.ngModel, this.component); ]];

DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) { 
var _this = this;
if (propagateDigest === void 0) { propagateDigest = true; }
var attrs = this.attrs;

var inputs = this.componentFactory.inputs || [];

var_loop_1 = function (i) { 
var input = 
new PropertyBinding(inputs[i].propName, inputs[i].templateName);
var expr = null;
if (attrs.hasOwnProperty(input.prop)) {

var observeFn = (function (prop) {

var prevValue = INITIAL_VALUE;

return function (currValue) {
if (prevValue === INITIAL_VALUE) {
prevValue = currValue;
}

_this.updateInput(prop, prevValue, currValue);
prevValue = currValue;

}(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.

var unwatch_1 = this.componentScope.$watch(function () {
unwatch_1();
unwatch_1 = null;
observeFn(input[attr].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];

}

if (expr !== null) {

var watchFn = (function (prop) {

return function (currValue, prevValue) {

_this.updateInput(prop,
prevValue, currValue);

}(prop));

this.componentScope.$watch(expr,
watchFn);

var this_1 = this;

for (var i = 0; i < inputs.length; i++) {

_loop_1(i);

// Invoke `ngOnChanges()` and Change Detection (when necessary)

var detectChanges = function () { 

var this.changeDetector.detectChanges();

}

var prototype = this.componentFactory.componentType.prototype;

this.implementsOnChanges = !(prototype &&
prototype.ngOnChanges);

this.componentScope.$watch(function () { 

this.inputChangeCount;

})

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 when inputs change.

if (propagateDigest) {

detectChanges();

}

// If not opted out of propagating digests, invoke change detection on every digest
if (propagateDigest) {

this.componentScope.$watch(this.wrapCallback(detectChanges));

}

// If necessary, attach the view so that it will be dirty-checked.
// (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)

var unwatch_2 = this.componentScope.$watch(function () {

unwatch_2();

}

var appRef = _this.parentInjector.get(core.ApplicationRef);

appRef.attachView( this.componentRef.hostView);

});

}

}

DowngradeComponentAdapter.prototype.setupOutputs = function () { 
var attrs = this.attrs;
var outputs = this.componentFactory.outputs || [];
for (var j = 0; j < outputs.length; j++) {

}
function (scope, element, attrs, required) {
    var ngZone;
    // We might have to compile the contents asynchronously, because this might have been triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have been compiled.
    var ngModel = required[1];
    var injector = required[0];
    var moduleInjector = undefined;
    var ranAsync = false;

    if (!parentInjector || hasMultipleDowngradedModules()) {
        var downgradedModule = info.downgradedModule || "" + LAZY_MODULE_REF + downgradedModule;
        var attemptedAction = "instantiating component \\
            moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;
        }
        // (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 `finalInjector` 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.

        // when looking for an injectable and then switch to the module injector.

        // 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's
          belongs to the same `NgModule` as this downgraded component (e.g. because there
          is only one downgraded module, we use `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 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;

        // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`:

        // component belongs to.
        var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);
        if (!componentFactory) {
            throw new Error("Expecting ComponentFactory for: " + getTypeName(info.component))
        }

        var injectorPromise = new ParentInjectorPromise(element);
        var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, $compile, $parse,

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.

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's
      belongs to the same `NgModule` as this downgraded component (e.g. because there
      is only one downgraded module, we use `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 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;

    // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`:

    // component belongs to.
    var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);
    if (!componentFactory) {
        throw new Error("Expecting ComponentFactory for: " + getTypeName(info.component))
    }

    var injectorPromise = new ParentInjectorPromise(element);
    var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, $compile, $parse,
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componentFactory, wrapCallback);
var projectableNodes = facade.compileContents();
facade.createComponent(projectableNodes);
facade.setupInputs(isNgUpgradeLite,
info.propagateDigest);
facade.setupOutputs();
facade.registerCleanup();
injectorPromise.resolve(facade.getInjector());
if (ranAsync) {
// If this is run
async, it is possible that it is not run inside a
// digest and initial input values will not be
detected.
scope.$evalAsync(function () { });
}
var downgradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {
if (!ngZone)
{ ngZone = pInjector.get(core.NgZone); }
wrapCallback(function () { return doDowngrade(pInjector, mInjector); })();
// NOTE: Not using 'ParentInjectorPromise.all()' (which is inherited from 'SyncPromise'), because
// Closure Compiler (or some related tool) complains;
// 'TypeError: __Ssrc downgrade_component_ParentInjectorPromise.all is not a function'
SyncPromise.all([finalParentInjector, finalModuleInjector]).then(function (_a) {
var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];
return downgradeFn(pInjector, mInjector);
});
}
// bracket-notation because of closure - see #14441
directiveFactory['$inject'] = [SCOMPILE, SINJECTOR,
SPARSE];
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;
_element = element;
_injectorKey = controllerKey(INJECTOR_KEY);
// Store the promise on the element.
_element.data(_this.injectorKey, _this);
return _this;
}
ParentInjectorPromise.prototype.resolve = function (injector) {
// Store the real injector on the element.
_element.data(this.injectorKey, injector);
// Release the element to prevent memory leaks.
_element = null;
// Resolve the promise.
.SyncPromise.resolve(call(this, 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
]* library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function that provides access to the Angular
 * service identified by the `token` parameter.
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is provided in an
 * `NgModule` that will be part of the upgrade application. For example, let's assume we have
 * defined
 * `HeroesService` * defined
 * `HeroesService` that will be part of the upgrade application. For example, let's assume we have
 * defined
 * `HeroesService`
 *
 * ```typescript
 * export class HeroesService {
 *   constructor(private heroesAPI: HeroesAPI) {
 *     // Set up our heroes
 *   }
 * }
 * ```
 *
 * Next we can register the `downgradableInjectable` function for the service
 * on an AngularJS module.
 *
 * ```typescript
 * @example upgrade/static/ts/full/module.ts
 * import { Ng2HeroesService } from '../NG2HeroesService';
 *
 * export class AppComponent {
 *   ngAfterViewInit() {
 *     this.heroes = Ng2HeroesService.getHeroes();
 *   }
 * }
 * ```
 *
 * Inside an AngularJS component's controller we can get hold of the
 * downgraded service via the name we gave when
downgrading.
 *
 * ```typescript
 * @example upgrade/static/ts/full/module.ts
 * import { HeroesService } from '../HeroesService';
 *
 * export class AppComponent {
 *   heroes: HeroesService;
 *   constructor(private heroesAPI: HeroesService) {
 *     this.heroes = heroesAPI.getHeroes();
 *   }
 * }
 * ```
 *
 * 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.
 *
 * ```typescript
 * @example upgrade/static/ts/full/module.ts
 * import { HeroesService } from '../HeroesService';
 *
 * export class AppComponent {
 *   heroes: HeroesService;
 *   constructor(private heroesAPI: HeroesService) {
 *     this.heroes = heroesAPI.getHeroes();
 *   }
 * }
 * ```

---

---
controllerInstance.$onDestroy();
            } in this.element
            // Clean the jQuery/jqLite data on the component+child elements.
            // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element
            element.cleanData([this.element]);
            // `cleanData` will invoke the AngularJS `$destroy` DOM event
            element.cleanData(this.element.querySelectorAll("*"));
            UpgradeHelper.prototype.prepareTransclusion = function () {
                var _this = this;
                var transclude = this.directive.transclude;
                var contentChildNodes = this.extractChildNodes();
                var attachChildrenFn = function (scope, cloneAttachFn) {
                    // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
                    // `$template` is empty. Since the transcluded content comes from
                    // Angular, not AngularJS, there will be no transclusion scope here.
                    // Provide a dummy
                    scope = scope || { $destroy: function () { return undefined; } };
                    return cloneAttachFn($template, scope);
                };
                var $template = contentChildNodes;
                if (transclude) {
                    var slots_1 = Object.create(null);
                    var slotMap_1 = Object.create(null);
                    var filledSlots_1 = Object.create(null);
                    // Parse the element selectors.
                    Object.keys(transclude).forEach(function (slotName) {
                        var selector = transclude[slotName];
                        var optional = selector.charAt(0) === '?';
                        selector = optional ? selector.substring(1) : selector;
                        slotMap_1[directiveNormalize(selector.toLowerCase())] = slotName;
                        slots_1[slotName] = null; // `null`: Defined but not yet filled.
                        filledSlots_1[slotName] = optional; // Consider optional slots as filled.
                    });
                    // Add the matching elements into their slot.
                    contentChildNodes.forEach(function (node) {
                        var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];
                        if (slotName) {
                            filledSlots_1[slotName] = true;
                            slots_1[slotName] = slots_1[slotName] || [];
                            slots_1[slotName].push(node);
                        } else {
                            $template.push(node);
                        }
                    });
                    // Check for required slots that were not filled.
                    Object.keys(filledSlots_1).forEach(function (slotName) {
                        if (!filledSlots_1[slotName]) {
                            throw new Error("Required transclusion slot " + slotName + " on directive: " + _this.name);
                        }
                    });
                    Object.keys(slots_1).filter(function (slotName) { return slots_1[slotName];
                        var nodes = slots_1[slotName];
                        slots_1[slotName] = function (scope, cloneAttach) {
                            return cloneAttach(nodes, scope);
                        };
                    });
                    // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
                    // removes all text content after the first interpolation and updates it later, after
                    // evaluating the expressions. This would result in AngularJS failing to recognize text
                    // nodes that start with an interpolation as transcluded content and use the fallback
                    // content instead.
                    // To avoid this issue, we add 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(function (node) {
                        if (node.nodeType === Node.TEXT_NODE &
                            node.nodeValue.trim() !=="
                            node.nodeValue = '\u200C' + node.nodeValue;
                        });
                    };
                    // 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+
                    $template.forEach(function (node) {
                        if (node.nodeType === Node.TEXT_NODE &
                            node.nodeValue.trim() !=="
                            node.nodeValue = '\u200C' + node.nodeValue;
                        });
                    };
                    UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) {
                        var directiveRequire = this.getDirectiveRequire();
                        var requiredControllers = this.resolveRequire(directiveRequire);
                        if (controllerInstance &
                            this.directive.bindToController &
                            this.directive.newController &
                            this.directive.createController &
                            this.directive.extendController &
                            this.directive.replaceController) {
                            requiredControllers.forEach(function (controller, index) {
                                UpgradeHelper.prototype.bindController(controller, index);
                            });
                        }
                    };
                }
            };
            $scope.$destroy();
        };
    });
})

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```typescript
// TODO(tbosch): find or file a bug against TypeScript for this.
var directive = { selector: selector, inputs: inputs, outputs: outputs, propertyOutputs: propertyOutputs, checkProperties: checkProperties, propertyMap: propertyMap, directive: directive, name: name_1, require: require, controllerInstance: controllerInstance, ...

// Note: There is a bug in TS 2.4 that prevents us from
// inlining this into @Directive
UpgradeHelper.prototype.getDirectiveRequire = function () {
    return this.directive.require || (this.directive.controller && this.directive.name);
}

UpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {
    if (isFunction(property)) {
        return property.apply(void 0, __spread(args)) : property;
    }
    // NOTE: Only works for 'typeof T !== 'object'.
    function notSupported(require, controllerInstance) {
        throw new Error("Upgraded directive '" + require + "' contains unsupported feature: " + require.map(function (req) { return _this.resolveRequire(req); });
    }
    // Description of 'require' syntax on upgraded directive " + require + ":
    var ctrlKey = controllerKey(name_1);
    var elem = startOnParent ? this.$element.parent() : this.$element;
    var value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);

    if (!value && !isOptional) {
        throw new Error("Unable to find required '" + require + "' in upgraded directive " + require + ":
    }
    return value;
}

UpgradeHelper.prototype.compileHtml = function (html) {
    this.element.innerHTML = html;
    return this.$compile(this.element.childNodes);
}

UpgradeHelper.prototype.extractChildNodes = function () {
    var childNodes = [
    ];
    var childNode;
    while (childNode = this.element.firstChild) {
        childNodes.push(childNode);
    }
    this.$compile(this.element.childNodes);
}

UpgradeHelper.prototype.compileNg1ComponentAdapterBuilder = /*@class*/ (function () {
    function UpgradeNg1ComponentAdapterBuilder(name) {
        this.name = name;
        this.inputs = [
        ];
        this.outputs = [
        ];
        this.inputsRename = [
        ];
        this.outputsRename = [
        ];
        this.propertyMap = [
        ];
        this.directive = null;
        var selector = name.replace(CAMEL_CASE, function (all, next) { return '_' + next.toLowerCase(); });
        var self = this;
        function extends(MyClass, super) {

            return this;
        }

        var MyClass = __decorate([
            core.Directive(__assign({ jit: true }, directive)),
        ], MyClass);

        return MyClass;
    }()

    function getOrCall(property) {
        var args = [
        ];
        for (var _i = 0; _i < arguments.length; _i++) {
            args[_i] = arguments[_i];
        }
        return isFunction(property) ? property.apply(void 0, args) : property;
    }
    // NOTE: Only works for 'typeof T !== 'object'.
    function isMap(value) {
        return value && !Array.isArray(value) && typeof value === 'object';
    }
    // Description of 'require' syntax on upgraded directive " + require + ":
    var ctrlKey = controllerKey(name_1);
    var elem = startOnParent ? this.$element.parent() : this.$element;
    var value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);

    if (!value && !isOptional) {
        throw new Error("Unable to find required '" + require + "' in upgraded directive " + require + ":
    }
    return value;
}
```

return MyClass;
}

UpgradeNg1ComponentAdapterBuilder.prototype.extractBindings = function () {
    var __this = this;
    var btcIsObject = typeof this.directive.bindToController === 'object';
    if (btcIsObject &&
        Object.keys(this.directive.scope).length) {
        throw new Error("Binding definitions on scope and controller at the same time are not supported.");
    }
    var context = (btcIsObject) ?
        this.directive.bindToController : this.directive.scope;
    if (typeof context == 'object') {
        var btcIsObject = typeof this.directive.bindToController === 'object';
        if (btcIsObject &&
            Object.keys(context).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;
                var inputName = "input_" + attrName;
                var inputNameRename = inputName + ": " + attrName;
                var outputName = "output_" + attrName;
                var outputNameRename = outputName + ": " + attrName;
                var outputNameRenameChange = outputNameRename + "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.checkProperties.push(propName);
                        _this.propertyMap[outputName] = propName;
                        _this.outputs.push(outputName);
                        _this.outputsRename.push(outputNameRename);
                        break;
                    case '&':
                        _this.outputs.push(outputName);
                        _this.outputsRename.push(inputName);
                        _this.propertyMap[outputName] = propName;
                        break;
                    default:
                        var json = JSON.stringify(context);
                        throw new Error("Unexpected mapping '" + bindingType + "' in '" + json + "' in '" + _this.name + "' directive.");
                }
            });
        }
        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);
    }
    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.$element = null;
    this.directives = this.directive.directives || [];
    this.$element = helper.$element;
    this.componentScope = scope.$new(!this.directive.scope);
    var controllerType = this.directive.controller;
    if (this.directive.bindToController &&
        controllerType) {
        this.controllerInstance =
            this.builder.buildController(controllerType, this.componentScope);
        this.destinationObj =
            this.controllerInstance;
    } else {
        this.destinationObj = this.componentScope;
    }
    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 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();
    }
    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.$onInit();
    }
    // Linking
    var preLink = typeof linkFn == 'object' && linkFn.pre;
    var postLink = typeof linkFn == 'object' ? linkFn.post : linkFn;
    var attrs = NOT_SUPPORTED;
    var transcludeFn = NOT_SUPPORTED;
    if (preLink) {
        preLink(this.componentScope, this.$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)) {
            eventEmitter.emit(lastValues[i] = value);
        }
    });
    if (this.controllerInstance &&
        isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }
}

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

UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {
    this.destinationObj[this.propertyMap[name]] = value;
    return UpgradeNg1ComponentAdapter;
});
```

*/

```
* @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 upgradeCount = 0;
```

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*/

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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 an adapter component is instantiated, the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax.

8. AngularJS is always bootstrapped first and owns the bottom most view.

9. The new application is running in Angular zone, and therefore it no longer needs calls to `$apply()`.

### Example

```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('greet', adapter.upgradeNg1Component(Greeter));

@Component({
  selector: 'greet',
  template: '{{salutation}} {{name}}! - <ng-
```
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```typescript
Content</ng-content>

class Greeter {
  @Input() salutation: string;
  @Input() name: string;
}

@NgModule({
  declarations: [Greeter],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML =
  'ng1 template: <greet salutation="Hello" [name]="world">text</greet>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng1 template: Hello world! - text");
});
```

UpgradeAdapter.prototype.downgradeNg2Component = function (component) {
  this.downgradedComponents.push(component);
  return downgradeComponent({
    component: component });
};

/**
 * Allows AngularJS Component to be used from Angular.
 *
 * Use `upgradeNg1Component` to create an Angular component from AngularJS Component
 * directive. The adapter will bootstrap AngularJS component from within the Angular
 * template. This means that the host element is controlled by Angular, but the component's view will be controlled by AngularJS.
 *
 * Supported Features:
 * - Interpolation: `{{ name }}` supported. (NOTE: injection of `$attrs` and `$transclude` are not supported).
 * - 'link': supported. (NOTE: only pre-link function is supported.)
 * - 'priority': ignored.
 * - 'require': supported.
 * - 'restrict': must be set to 'E'.
 * - 'templateUrl': supported.
 * - 'transclude': supported. (NOTE: only some of the features of
 *   [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are supported: `compile`, `controller`, `controllerAs`, `bindToController`, `link`).

### Supported Features

- Interpolation: `{{name}}` is supported.
- Event: `<comp (close)="doSomething()">` is supported.
- Transclusion: supported.

### Support

- Bindings:
  - Attribute: `<comp name="World">`
  - Interpolation: `{{comp greeting="Hello {{name}}!"}}` is supported.
  - Expression: `<comp [name]="username">` is supported.
  - Event: `<comp (close)="doSomething()">` is supported.
- Transclusion: supported. Only some of the features of
  [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are supported: `compile`, `controller`, `controllerAs`, `bindToController`, `link`.

### 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));

@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 {}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
});
```

UpgradeAdapter.prototype.upgradeNg1Component = function (name) {
  if (this.ng1ComponentsToBeUpgraded.hasOwnProperty(name)) {
    return this.ng1ComponentsToBeUpgraded[name].type;
  } else {
    return (this.ng1ComponentsToBeUpgraded[name].type || new UpgradeNg1ComponentAdapterBuilder(name)).constructor;
  }

const upgradeAdapterRef:
UpgradeAdapterRef = new UpgradeAdapterRef();
const $compile, $rootScope;

// We must register the adapter before any calls to `inject()`
```
```javascript
upgradeAdapter.registerForNg1Tests('heroApp');
```
adapter.upgradeNg1Provider('login', { asToken: Login });
 * @public
 * @adapter.bootstrap(document.body, 
 * ['myExample'])).ready((ref) => { 
 *   $ref.ng1Injector.get(Example); 
 *   $$delegate = ref.$delegate; 
 *   Error('Failed to find \'$delegate\' on \'\$rootScope\'!'); 
 * })
 */
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]
    });
/* Allows Angular service to be accessible from AngularJS.
 * @usageNotes
 * ### Example
 *
 * ```
 * class Example {
 * }
 *
 * const adapter = new UpgradeAdapter(MyNg2Module);
 * const module = angular.module('myExample', []);
 * module.factory('example', adapter.downgradeNg2Provider(Example));
 *
 * adapter.bootstrap(document.body, ['myExample']).ready(ref => {
 *   const example: Example = ref.$injector.get('example');
 * });
 *
 * ```
 */
UpgradeAdapter.prototype.downgradeNg2Provider = function (token) { return downgradeInjectable(token); };
/**
 * Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
 * hybrid application.
 * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.
 * @returns The AngularJS upgrade module that is declared by this method
 * @usageNotes
 * ### Example
 *
 * ```
 * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
 * upgradeAdapter.declareNg1Module(\'HeroApp\');
 *
 * ```
 */
UpgradeAdapter.prototype.declareNg1Module = function (modules) {
    var _this = this;
    if (modules === void 0) { modules = []; }
    var delayApplyExps = [];
    var original$applyFn;
    var rootScopePrototype;
    var rootScope;
    var upgradeAdapter = this;
    var ng1Module = this.ng1Module = module_(this.idPrefix, modules);
    var platformRef = platformBrowserDynamic.platformBrowserDynamic();
    var ng2BootstrappedDeferred = 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($ROOT_SCOPE, [ 
                    '$delegate',
                    function (rootScopeDelegate) {
                        // Capture the root apply so that we can delay first
                        call to $apply until we n
                        // bootstrap Angular and then we replay and restore the $apply.
                        rootScopePrototype = rootScope.$$delegate = this;
                        var originalSapplyFn = rootScopePrototype.$$delegate.$$sapply;
                        rootScopePrototype.$$delegate.$$sapply = function (exp) { return 
                            delayApplyExps.push(exp); 
                        };
                        return (new Error('Failed to find \'$$apply\' on \'$$rootScope\'!')).
                    } 
                ]); 
            } 
        ])
        .config([ 
            '$provide', 'core.Injector', 
            function (provide, injector) {
                provide.decorator($STESTABILITY, [n
                    '$delegate', 
                    function (testabilityDelegate) {
                        var originalWhenStable = testabilityDelegate.whenStable;
                        if (rootScopePrototype.$$delegate.$$sapply) {
                            originalSapplyFn = rootScopePrototype.$$delegate.$$sapply;
                        } 
                        testabilityDelegate.$$sapply = function (exp) {
                            var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
                            if (ng2Testability.$$delegate.$$sapply) {
                                ng2Testability.$$delegate.$$sapply = function (exp) {
                                    var newWhenStable = newError( 
                                        function (callback) {
                                            originalWhenStable.call(this, function () { 
                                                var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
                                                if (ng2Testability.$$delegate.$$sapply) {
                                                    callback.apply(this, arguments);
                                                }
                                                else {
                                                    ng2Testability.$$delegate.$$sapply = ng2Testability.$$delegate.$$sapply;
                                                }
                                                return testabilityDelegate.$$delegate.$$sapply = testabilityDelegate.$$delegate.$$sapply;
                                                if (testabilityDelegate.$$delegate.$$sapply) {
                                                    var oldWhenStable = testabilityDelegate.$$delegate.$$sapply;
                                                }
                                                testabilityDelegate.$$delegate.$$sapply = function (callback) {
                                                    var oldWhenStable = testabilityDelegate.$$delegate.$$sapply;
                                                    return testabilityDelegate.$$delegate.$$sapply = testabilityDelegate.$$delegate.$$sapply;
                                                };
                                            });
                                        };
                                    };
                                    return testabilityDelegate.$$delegate.$$sapply = testabilityDelegate.$$delegate.$$sapply;
                                };
                            };
                        };
                    } 
                ]);
            } 
        ]);
ng1Module.run(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 ngMod = {
            providers: [
                { provide: $INJECTOR, useFactory: function () { return ng1Injector; } },
                { provide: $COMPILE, useFactory: function () { return ng1Injector.get($COMPILE); } },
                _this.upgradedProviders
            ],
            imports: [core.resolveForwardRef(this ng2AppModule)],
            entryComponents: _this.downgradedComponents
        }; // At this point we have ng1 injector and we have prepared
        DynamicNgUpgradeModule = /** @class */ (function () {
            function DynamicNgUpgradeModule() {
            }
            DynamicNgUpgradeModule.prototype.ngDoBootstrap = function () { };
        }));
        DynamicNgUpgradeModule = __decorate([],
            DynamicNgUpgradeModule, [core.NgModule(__assign({ jit: true }, ngModule)),
                __metadata("design:paramtypes", [])]);
        DynamicNgUpgradeModule = platformRef
            .bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions, {
                ngZone: this.ngZone }]);
        var subscription = this.ngZone.onMicrotaskEmpty.subscribe(function () { return this.rootScope.$digest(); });
        return this.rootScope.$on('$destroy', function () { subscription.unsubscribe(); });
    });
});

ng1Module = {}; // TODO(bosch): find or file a bug against TypeScrip7 for this.

function (ngModuleRef, ng1Injector) {
            this.ng2ModuleRef = ngModuleRef;
            this.ng2Injector = ngModuleRef.injector;
            this.ng1Injector = ng1Injector;
            this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
        };
        /**
         * Register a callback function which is notified upon successful hybrid AngularJS / Angular
         * application has been bootstrapped.
         * The `ready` callback function is invoked inside the Angular zone, therefore it does not require a call to `$apply()`.
         * `UpgradeAdapterRef.prototype.ready = function (fn) { this._readyFn = fn; }`;
         * `UpgradeAdapterRef.prototype.dispose = function () { this.ng1Injector.get($ROOT_SCOPE).$destroy(); this.ng2ModuleRef.destroy(); return UpgradeAdapterRef; }();`;
         * `@license
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         */
        UpgradeAdapterRef.prototype.ready = function (fn) {
            this._readyFn = fn; };
        /**
         * Dispose of running hybrid AngularJS / Angular application.
         */
        UpgradeAdapterRef.prototype.dispose = function () {
            this.ng1Injector.get($ROOT_SCOPE).$destroy();
            this.ng2ModuleRef.destroy();
        };
        return UpgradeAdapterRef;
    }();

    /**
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     */
    exports.UpgradeAdapter = UpgradeAdapter;
    exports.UpgradeAdapterRef = UpgradeAdapterRef;
    exports.VERSION = VERSION;
    Object.defineProperty(exports, '__esModule', { value: true });
})
//
sourceMappingURL=upgrade.umd.js.map

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

No license file was found, but licenses were detected in source scan.
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 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 {
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): 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
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
(see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix,
    dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
angular.element.cleanData(nodes); //\nexport const injector: typeof angular.injector =
    (modules:
        Array<string|IInjectable>,
        strictDi?: boolean) =>
    angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () =>
angular.resumeBootstrap(); //\nexport const getTestability: typeof angular.getTestability = e =>
angular.getTestability(e);
v, this) : new __await(v);

export function __asyncGenerator(thisArg, _arguments, generator) {
    if (!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");
    var g = generator.apply(thisArg, _arguments || []);
    i, q = []; return i = {}, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i;
    q.push([n, v, a, b] > 1 || resolve(n, v)); i[n] = function (v) { return new Promise((a, b) => q.push([v, a, b])); };
    i[v] = function resume(n, v) { try { step(g[n](v)); } catch (e) { settle(q[0][3], e); } };
    function step(r) { if (r.value instanceof __await) {
        Promise.resolve(r.value.v).then(fulfill, reject);
    } else if (r.value instanceof __await)
        Promise.resolve(r.value.v).then(fulfill, reject);
    }
    function fulfill(value) {
        resume("next", value);
    }
    function reject(value) {
        resume("throw", value);
    }
    return i;
}

function verb(n) {
    if (g[n]) i[n] = function (v) {
        return new Promise((resolve, reject) => settle(resolve, reject, v, value));
    };
}

function settle(resolve, reject, v, value) {
    Promise.resolve(v).then(resolve, reject);
}

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

function __importStar(mod) {
    return (mod && mod.__esModule) ? mod : {
        default: mod
    };
}

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

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

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

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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 `"propAndAttr"` where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
    constructor(prop: string, attr: string) {
        this.parseBinding();
    }

    private parseBinding() {
        this.bracketAttr = `\[${attr}\]`
        this.parenAttr = `\(\[${attr}\]\)`
        this.onAttr = `\[[\_${attr}\]]`
        this.bindAttr = `\[\_${attr}\]`
        this.bindonAttr = `\[\_${attr}\]`
    }
}

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"{(this.attr)}";\n  this.bracketParenAttr = "[${(this.attr)}]";\n  const capitalAttr =
  this.attr.charAt(0).toUpperCase() + this.attr.substr(1);\n  this.onAttr = `on${capitalAttr}`;\n  this.bindAttr =
  `bind${capitalAttr}`;\n  this.bindonAttr = `bindon${capitalAttr}`;\n  const capitalAttr =
  this.attr.charAt(0).toUpperCase() + this.attr.substr(1);\n  this.onAttr = `on${capitalAttr}`;\n  this.bindAttr =
  `bind${capitalAttr}`;\n  this.bindonAttr = `bindon${capitalAttr}`;
}

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

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

import {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 '$' + name + 'Controller';
}

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

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

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

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

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

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

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradedModule) {
        throw new Error(
            `Error while ${attemptedAction}: 
            'downgradedModule' unexpectedly specified.\n` +
            'You should not specify a value for \'downgradedModule\', unless you are downgrading ' +
            'more than one Angular module (via 
\downgradedModule\)').
      }
      break;
    case UpgradeAppType.Lite:
      if (!downgradedModule &&
        (downgradedModuleCount >= 2)) {
        throw new Error(
            `Error while ${attemptedAction}: 
            'downgradedModule' not specified.\n` +
            'This application contains more than one downgraded Angular
            module, thus you need to ' +
            'always specify \downgradedModule\ when downgrading components and
injectables.');
      }
      if (!$injector.has(injectionKey)) {
        throw new Error(
            `Error while ${attemptedAction}: Unable to find the specified
        downgraded module.\n` +
            'Did you forget to downgrade an Angular module or include it in
the AngularJS \application?!')
      }
      break;
    default:
      throw new Error(
        `Error while \${attemptedAction}: 
        Not a valid @angular/upgrade application.\n` +
        'Did you forget to downgrade an Angular module or include it in
the AngularJS \application?!')
  }
}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !:
    (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  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 enum UpgradeAppType {
  // App NOT using `@angular/upgrade` APIs (a.k.a. dynamic
  \ngUpgrade\).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.\n  Static,

  // App using `@angular/upgrade/static` with 
  \downgradeModule\() (a.k.a. \ngUpgrade\-lite).\n  Lite,
}

/**
 * @return
   Whether the passed-in component implements the subset of the \* 
   \ControlValueAccessor\ interface needed for AngularJS \ng-model\ * compatibility.\n   supportsNgModel(component: any) { 
      return typeof
   component.writeValue === 'function' &&
      component.registerOnChange === 'function';
}
Glue the AngularJS `NgModelController` (if it exists) to the component
if (ngModel && & supportsNgModel(component))

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

```typescript
if (typeof component.registerOnTouched === 'function') {

component.registerOnTouched(ngModel.$viewValue); }
```

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

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

```typescript
return val1 === val2 || (val1 !== val1 && val2 !== val2); }
```

```typescript
return true
```

```typescript
return INITIAL_VALUE
```

```typescript
return INITIAL_VALUE
```

```typescript
return INITIAL_VALUE
```

```typescript
constructor(ngModel: INgModelController, component: any) {

if (ngModel && & supportsNgModel(component))

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

```typescript
component.registerOnTouched(ngModel.$viewValue); }
```

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

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

```typescript
return val1 === val2 || (val1 !== val1 && val2 !== val2); }
```

```typescript
return true
```

```typescript
return INITIAL_VALUE
```

```typescript
return INITIAL_VALUE
```

```typescript
constructor(ngModel: INgModelController, component: any) {

if (ngModel && & supportsNgModel(component))

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

```typescript
component.registerOnTouched(ngModel.$viewValue); }
```

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

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

```typescript
return val1 === val2 || (val1 !== val1 && val2 !== val2); }
```

```typescript
return true
```

```typescript
return INITIAL_VALUE
```

```typescript
return INITIAL_VALUE
```

```typescript
constructor(ngModel: INgModelController, component: any) {

if (ngModel && & supportsNgModel(component))

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

```typescript
component.registerOnTouched(ngModel.$viewValue); }
```

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

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

```typescript
return val1 === val2 || (val1 !== val1 && val2 !== val2); }
```

```typescript
return true
```

```typescript
return INITIAL_VALUE
```

```typescript
return INITIAL_VALUE
```
this.updateInput(prop, prevValue, currValue);
\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\nThe above code is a part of a larger application, likely a directive in an Angular application. It defines methods and properties related to updating inputs, observing changes, and managing component lifetime. The code uses methods like `$watch()`, `$observe()`, and `$watch()` to manage updates and changes, and it includes conditional logic to determine how to handle different input attributes.
private updateInput(prop: string, prevValue: any, currValue: any) {
    if (thisimplementsOnChanges) {
        this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
        this.inputChangeCount++;
        this.component[prop] = currValue;
    }
}

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

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [];
    let wildcardNgContentIndex: number = -1;
    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);
            }
        }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
        ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
}

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;
}

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

import {isFunction} from './util';

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

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

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

    static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
        const aggrPromise = new SyncPromise<T[]>();
        let resolvedCount = 0;
        const results: T[] = [];
        valuesOrPromises.forEach((p, idx) => {
            if (isThenable(p)) {
                p.then(v => results[idx] = value;
            }
        });
        if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
        return aggrPromise;
    }

    resolve(value: T): void {
        if (this.resolved)
            return;
        this.value = value;
        this.resolved = true;
        this.callbacks.forEach(callback => callback(value));
        this.callbacks.length = 0;
        this.then(callback => (callback(value)) => {
            if (callback) {
                callback.value = value;
            }
        });
    }

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

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 * 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 {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

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This helper function returns a factory function to be used for registering an Angular component. It assumes 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/upgrade#using-angular-components-from-angularjs-code).

### Examples

Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

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

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 `downgraded` component.

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

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

### Parameters

- `info` contains information about the Component that is being downgraded:
  - `component: Type<any>`: The type of the Component that will be `downgraded`
  - `downgradedModule?: string`: The name of the downgraded module (if any) that the component "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
  - `propagateDigest?: boolean`: Whether to perform change detection on the component on every change detection run.

`@publicApi`
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 aren't treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve
`ComponentFactoryResolver` from either one will return the same instance.
If there is a parent component, use its injector as parent injector.
// If this is a top-level Angular component, use the
module injector.
```

```

// 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 finalParentInjector = parentInjector || moduleInjector !;

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

```
const finalModuleInjector = moduleInjector || parentInjector !;
```

```
const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this belongs to.
  const componentFactory = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);
  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
  facade.setupOutputs();
  facade.registerCleanup();
  injectorPromise.resolve(facade.getInjector());

  if (ranAsync) {
    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:
// "Type Error: ...src$downgrade_component_ParentInjectorPromise.all is not a
function" when trying to resolve `Promise.all([finalModuleInjector, finalParentInjector]).then([...]).

```

```
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();
```

```
const componentFactoryResolver: ComponentFactoryResolver = moduleInjector.get(ComponentFactoryResolver);
```
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---

```javascript
// A helper function to allow an Angular service to be accessible from AngularJS.

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

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

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

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

  return factory;
}
```

---

```typescript
/**
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 * the LICENSE file at https://angular.io/license
 */

// 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 `veGet` the ng1 injector from the module injector, which triggers the provider to read it,
// then we can set the reference to it.
```
```
IInjectorService) { tempInjectorRef = injector; } export function injectorFactory() { if (!tempInjectorRef) {
  throw new Error('Trying to get the AngularJS injector before it being set.'); } const injector = 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('$parse'); } export const angular1Providers = [
  // We must use exported named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that will be reported at runtime
  // > Function calls are not supported.
  // > Consider replacing the function or lambda with a reference to an exported function
  { provide: '$injector', useFactory: injectorFactory, deps: [] },
  { provide: 'AngularJSInjector', useFactory: rootScopeFactory, deps: ['$injector'] },
  { provide: 'AngularJSInjector', useFactory: compileFactory, deps: ['$injector'] },
  { provide: 'AngularJSInjector', useFactory: parseFactory, deps: ['$injector'] }
];
```
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 service component. You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application. Use one or the other.

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

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the Angular part of the application.
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.

Unlike `downgradeModule()`, on the other side, does not try to tie the two change detection systems tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance.

especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

### 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.
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.

Unlike `downgradeModule()`, on the other side, does not try to tie the two change detection systems tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance.

especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

### 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

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

  When using `PlatformRef#bootstrapmodule` or `PlatformRef#bootstrapmodulefactory` to bootstrap the
  downgraded modules, each one is considered a root module. As a consequence, a new instance will be created for every injectable provided in the root module. If this is not your intention, you can have a shared module (that will act as the root module) and create all downgraded modules using that module's injector.

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

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

  When using `PlatformRef#bootstrapmodule` or `PlatformRef#bootstrapmodulefactory` to bootstrap the
  downgraded modules, each one is considered a root module. As a consequence, a new instance will be created for every injectable provided in the root module. If this is not your intention, you can have a shared module (that will act as the root module) and create all downgraded modules using that module's injector.

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

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

  When using `PlatformRef#bootstrapmodule` or `PlatformRef#bootstrapmodulefactory` to bootstrap the
  downgraded modules, each one is considered a root module. As a consequence, a new instance will be created for every injectable provided in the root module. If this is not your intention, you can have a shared module (that will act as the root module) and create all downgraded modules using that module's injector.

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

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

  When using `PlatformRef#bootstrapmodule` or `PlatformRef#bootstrapmodulefactory` to bootstrap the
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($injector: IInjectorService) => {
  setTempInjectorRef($injector);
  const result: LazyModuleRef = (ref => {
    injector = result.injector = new NgAdapterInjector(ref.injector);
    injector.injector.get(SINJECTOR)();
    return injector;
  })(injector.get($injector));
  return result;
};

$injector: IInjectorService, SProvide: IProvideService) => {
  const $compile, $CONTROL, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE =
    from './angular1';
  this.element = angularElement(this.element);
  this.$element.data !(controllerKey(this.directive.name!), controller);
  return controller;
};

"$compile", "$COMPIL"
private extractChildNodes(): Node[] {
    const childNodes: Node[] = [];
    let childNode: Node | null = null;
    while (childNode = this.element.firstChild) {
        childNode = childNode.firstChild;
        if (childNode) {
            let childElement: Element | null = childNode;
            while (childElement) {
                if (childElement.nodeName = 'object') {
                    childNode = childNode.firstChild;
                    continue;
                }
                childNode = childNode.firstChild;
            }
            childNodes.push(childNode);
            childNode = this.element.firstChild;
        }
    }
    return childNodes;
}

private getDirectiveRequire(): DirectiveRequireProperty {
    const require = this.directive.require || (this.directive.controller &&
        this.directive.name) !
    Object.keys(require).forEach(key => {
        const value = require[key];
        if (typeof value === 'function') {
            this.element.removeChild(value);
        } else if (Array.isArray(value)) {
            return require.map(req => this.resolveRequire(req));
        } else if (typeof value === 'object') {
            this.$element.data = {}
            this.$element.data[key] = this.resolveRequire(value[key]);
        } else if (typeof value === 'string') {
            const match = value.match(REQUIRE_PREFIX_RE) !;
            const name = value.substring(match[0].length);
            const value = this.resolveRequire(value);
OnInit, OnChanges, DoCheck, OnDestroy

private helper: UpgradeHelper;

private element: Element;

private Selement: IAugmentedJQuery;

private ScomponentScope: IScope;

private directive: IDirective;

private bindings: Bindings;

// TODO(issue/24571): remove '!

private controllerInstance!: IControllerInstance;

// TODO(issue/24571): remove '!

private bindingDestination!: IBindingDestination;

// We will be instantiating the controller in the `ngOnInit` hook, when the
// first ` ngOnChanges` will have been already triggered. We store the
// `SimpleChanges` and `\"\"` 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 `name` parameter should be the name of the AngularJS directive.
 * * The `elementRef` and `injector` parameters should be acquired from Angular by dependency injection into the base class constructor.

 * @constructor
 * 
 * * @param name @param name
 * @param elementRef @param elementRef
 * @param injector @param injector
 * 
 * * @param this.helper = new UpgradeHelper(name, elementRef, injector);
 * 
 * * this.$injector = this.helper.$injector;
 * 
 * * this.element = this.helper.element;

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

 * * this.directive = this.helper.directive;

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

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

 * * const SparentScope = injector.get($SCOPE);

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

 * * QUESTION 2: Should we make the scope accessible through `\$element.scope()/isolateScope()`?

 * * this.$componentScope = SparentScope.Snew(!this.directive.scope);

 * * this.initializeOutputs();

 * * ngOnInit() {

 * * // Collect contents, insert and compile template

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

 * * const linkFn = this.helper.compileTemplate();

 * * // Instantiate controller

 * * const controllerType = this.directive.controller;

 * * const bindToController = this.directive.bindToController;

 * * if (controllerType) {

 * * this.controllerInstance = this.helper.buildController(controllerType,

 * * this.$componentScope);

 * * } else if (bindToController) {

 * * throw new Error('Upgraded directive `\${this.directive.name}` specifies `bindToController` but no controller.');

 * * } // Set up outputs

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

 * * this.$bindOutputs();

 * * // Require other controllers

 * * const requiredControllers =

 * * this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

 * * // Hook: $onChanges

 * * (this.pendingChanges) {

 * * this.forwardChanges(this.pendingChanges);

 * * this.pendingChanges = null;

 * * } // Hook: $onInit

 * * if (this.controllerInstance &

 * * isFunction(this.controllerInstance.$onInit)) {

 * * // Hook: $doCheck

 * * if (this.controllerInstance &

 * * isFunction(this.controllerInstance.$doCheck, SdoCheck)) {

 * * const callDoCheck = () => this.controllerInstance.$doCheck();

 * * this.unregisterDoCheckWatcher = this.$componentScope.$event.$watch(callDoCheck);

 * * callDoCheck();

 * * } // Linking

 * * const link = this.directive.link;

 * * const preLink = typeof link == 'object'

 * * &

 * * link.pre;

 * * const postLink = typeof link == 'object'

 * * link.post;

 * * const attrs = NOT_SUPPORTED;

 * * const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;

 * * if (preLink) {

 * * preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);

 * * }\n
 * * linkFn(this.$componentScope, null, {

 * * parentBoundTranscludeFn: attachChildNodes

 * * });

 * * if (preLink) {

 * * preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);

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

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

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

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

  private initializeOutputs() {
    // Initialize the outputs for `=` and `&` bindings
    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);
    if (isFunction(this.bindingDestination.$onChanges)) {
      this.bindingDestination.$onChanges(changes);
    }
  }
}

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

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

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, Upgrade_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from './/..src/common/src/angular1';
import {$$TESTABILITY, $$DELEGATE, SINJECTOR, SINTERVAL, SPROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, Upgrade_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from './/..src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from './/..src/common/src/util';
import {angular1Providers, setTempInjectorRef} from './/..src/common/src/angular1';
import {AngularModule} from '@angular/core';

@NgModule({
  providers: [NgAdapterInjector]
})
export class UpgradeModule {
  constructor(
    @NgAdapterInjector
    @controllerKey
    @AngularModule
    @Upgrade_APP_TYPE_KEY
    @UPGRADE_MODULE_NAME
  )
  {}
}

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injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See GitHub.*  

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

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 [*link UpgradeModule#examples 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 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\" DOM element 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 implies that the component bindings will always follow the semantics of the instantiation framework.

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

* 3. However the template binding syntax will always use the Angular style, e.g. square brackets ([...]) for property binding. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.

* 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. Core AngularJS services

* Importing this `NgModule` will add providers for the core

* [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.

* The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

* It also contains properties to access the root injector, the `NgZone` and the injectable AngularJS module.

* Import the `UpgradeModule` into your top level `Angular Module`.

* Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level AngularJS module.

* 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:

* Then you should define an Angular provider to be included in your

* `NgModule``s providers

* property.

* 4. **Usage Notes**

* 5. **Examples**

* Import the `UpgradeModule` into your top level `Angular Module`.

* 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:

* Then you should define an Angular provider to be included in your

* `NgModule``s providers

* or service.

* Then you can use the \"upgraded\" AngularJS service by injecting it into an Angular component or service:

* `"use-nginx-upgraded-service\"`
@publicApi

/**
   * The AngularJS `$injector` for the upgrade application.
   */

@Injectable()
export class UpgradeModule {

    /**
     * The bootstrapp zone 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) {

        // Create an ng1 module to bootstrap
        const initModule =

            .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)

            .value(INJECTOR_KEY, this.injector)

            .factory(LAZY_MODULE_REF, [INJECTOR_KEY, (injector: Injector) => ({ injector } as
            LazyModuleRef))

            .run([INJECTOR_KEY, ($injector: IInjectorService) => {
                this.$injector = $injector;

                // Initialize the ng1 $injector provider
                setTempInjectorRef($injector);
                this.injector.get($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
                setScopeTimeout(() => {
                    this.ngZone.run(() => fn(...args));
                }, delay, count, invokeApply, ...pass);

                // Run callback in the next VM turn - $interval calls
                return wrappedInterval;
            }, $injector])

            // Scroll to top
            .scrollToTop();

            this.$injector.$evalAsync();

            return $rootScope;

            // A digest was triggered while one
            // was already in progress. This may mean that something is triggering digests outside the Angular zone.
            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 $rootScope.$digest;
        }
    }

    // A digest was triggered while one
    // was already in progress. This may mean that something is triggering digests outside the Angular zone.
    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 $rootScope.$digest;
}

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```javascript

import {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from '../src/common/src/angular1';
export {downrangeComponent} from '../src/common/src/downrange_component';
export {downrangeInjectable} from '../src/common/src/downrange_injectable';
export {VERSION} from '../src/common/src/version';
export {downrangeModule} from './src/downrange_module';
export {UpgradeComponent} from './src/upgrade_component';
export {UpgradeModule} from './src/upgrade_module';

// This file only re-exports items to appear in the public api. Keep it that way.

export * from './public_api';

export * from './index';

export {angular1Providers as ɵangular_packages_upgrade_static_e,compileFactory as ɵangular_packages_upgrade_static_c,injectorFactory as ɵangular_packages_upgrade_static_a,parseFactory as ɵangular_packages_upgrade_static_d,rootScopeFactory as ɵangular_packages_upgrade_static_b} from './angular1_providers';
```

---

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4229
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```
"version":3,"file":"upgrade-static-testing.umd.js","sources": [ "/opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static.umd.js.map"
]
```

---

Microsoft Corporation. All rights reserved. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0. THIS CODE IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OR CONDITIONS OF TITLE, FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR NON-INFRINGEMENT. See the Apache Version 2.0 License for specific language governing permissions and limitations under the License.
case 7: op = __ops.pop(); __trys.pop(); continue;}

default: __run__ if (!t || t.length > 0 && (t.length - 1) && (op[0] === 6 || (op[0] === 2) && (t.length - 1) && (op[0] === 6 && op[1] < 3))) { __label__ = op[1]; break; }

__run__ if (op[0] === 6 && __label__ < t[1]) {

__label__ = t[1]; t = op; break; }

__run__ if (t && __label__ < t[2]) { __label__ = t[2]; __ops.push(op); break; }

__run__ if (t[2] === __ops.pop()) { __trys.push(pop); continue; }

op = body.call(thisArg, __spread) |

.catch(e) { op = [e, e]; y = 0; } finally { f = t = 0; } __run__ if (op[0] === 5) throw op[1]; 

__run__ if (op[0] ? op[1] : void 0, done: false)

return { value: op[1], done: false };

__run__ case 5: __label__++; y = op[1]; op = [0]; continue;}

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

 */

export type Ng1Token = string;

export type Ng1Expression = string |

Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of '@types/angular' typings extend the global 'Function' interface within
  // 'Sinject?': string[], which is not compatible with '$inject?:
  // ReadonlyArray<string>' (used in // latest versions).
  $inject?: string[];
  Function extends $inject?: string[]?
}

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

export interface IModule { name: string; requires: (string|Injectable)[];
  config(fn: Injectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, factory: Injectable): IModule;
  controller(name: string, factory: Injectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  run(a: Injectable): IModule;
  $inject?: Injectable[];
  $injector?: Injectable[];
  $injector?p: Injectable[];
  $injector?[]: Injectable[];

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

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

export interface IModule { name: string; requires: (string|Injectable)[];
  config(fn: Injectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, factory: Injectable): IModule;
  controller(name: string, factory: Injectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  run(a: Injectable): IModule;
  $inject?: Injectable[];
  $injector?: Injectable[];
  $injector?p: Injectable[];
  $injector?[]: Injectable[];

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

export interface IModule { name: string; requires: (string|Injectable)[];
  config(fn: Injectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, factory: Injectable): IModule;
  controller(name: string, factory: Injectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  run(a: Injectable): IModule;
  $inject?: Injectable[];
  $injector?: Injectable[];
  $injector?p: Injectable[];
  $injector?[]: Injectable[];

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

export interface IModule { name: string; requires: (string|Injectable)[];
  config(fn: Injectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, factory: Injectable): IModule;
  controller(name: string, factory: Injectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  run(a: Injectable): IModule;
  $inject?: Injectable[];
  $injector?: Injectable[];
  $injector?p: Injectable[];
  $injector?[]: Injectable[];

export type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};
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';

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

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

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

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

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

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.
 *
 * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * This makes it simpler and faster to unit test services. Use the returned class as an `import` when
 * configuring the `TestBed`.
 *
 * In the following code snippet, we are configuring the TestBed with two imports.
 * The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the
 * AngularJS part.
 *
 * <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-setup"></code-example>
 *
 * Once this is done we can get hold of services via the Angular `Injector` as
 * normal. Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as
 * needed by the AngularJS `Injector`.
 *
 * In the following code snippet, `HeroesService` is an Angular service
 * that depends upon an AngularJS service, `titleCase`. This helper is for testing services not Components.
 * For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.
 *
 * Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.
 *
 * Here is the example application and its unit tests that use `createAngularTestingModule`
 * and `createAngularJSTestingModule`.
 *
 * <code-tabs>
 *  <code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
 *  <code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
 * </code-tabs>
 *
 * @param angularJSModules a collection of the names of AngularJS modules to include in the
 * configuration.
 * @param [strictDi] whether the AngularJS injector should have `strictDI` enabled.
 *
 * The resulting configuration does not wire up AngularJS digest to Zone
 * hooks. It is the responsibility of the test writer to call `$rootScope.$$apply`, as necessary, to trigger AngularJS handlers of async events from AngularJS.
 *
 * 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`.
 */
export function createAngularTestingModule(angularJSModules: string[], strictDi?: boolean): Type<any> {
angular.module_($"AngularJSTestingModule", angularJSModules)
  .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
  .factory(INJECTOR_KEY, () => injector)
  .factory($INJECTOR, ($injector: ng.IInjectorService) => {
    TestBed.configureTestingModule({
      imports: angularModules,
      providers: [{provide: $INJECTOR, useValue: $injector}
    ]
    });
    return TestBed.inject(Injector);
  })
  .name;

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 * 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 {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
angular_packages_upgrade_static_testing

@NgModule

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

export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from '../../src/common/src/util';
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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/bundles/upgrade-
static.umd.min.js
No license file was found, but licenses were detected in source scan.

{"version":3,"file":"static.js","sources":
"sourcesContent":
["/**
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 * found in the LICENSE file at
 * https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular`
  // typings extend the global `Function` interface within `Sinject?: string[]`, which is not compatible with `Sinject?:
  // 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 INgModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): INgModule;

directive(selector: string, factory: IInjectable): INgModule;
  component(selector: string, component: IComponent): INgModule;
  controller(name: string, type: IInjectable): INgModule;
  factory(key: Ng1Token, factoryFn: IInjectable): INgModule;
  run(a: IInjectable): INgModule;
  value(key: Ng1Token, value: any): INgModule;
  constant(token: Ng1Token, value: any): INgModule;
  run(a: IInjectable): INgModule;
}

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;
  futureParentElement?: Node;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression, locals?: any): any;
  $digest(): void;
  $parse(exp: Ng1Expression, locals?: any): any;
  $watch(exp: Ng1Expression, fn?: (event?: any, ...args: any[]) => void): Function;
  $validate(): void;
  $isolateScope(): IScope;
  $controllerAs: string;
  $scope: IScope;
  $root: IScope;
  $element: any;
  $compile: Directive CompileFn;
  $controller: Directive ControllerAs;
  $controllerAs: Directive ControllerAs;
  $transcludeControllers: Directive TranscludeControllers;
  $futureParentElement: Node;
  $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, locals?: any): any;
  $digest(): void;
  $parse(exp: Ng1Expression, locals?: any): any;
  $isolateScope(): IScope;
  $controllerAs: string;
  $scope: IScope;
  $root: IScope;
  $element: any;
  $compile: Directive CompileFn;
  $controller: Directive ControllerAs;
  $controllerAs: Directive ControllerAs;
  $transcludeControllers: Directive TranscludeControllers;
  $futureParentElement: Node;

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boolean) => IInjectorService.

// TestabilityService

version: {major: number},

resumeBootstrap: () => void,

getTestability: (e: Element) => ITestabilityService

// bootstrap method

version: undefined as any,

resumeBootstrap: noNg,

global: noNg,

element: noNgElement,

injector: noNg,

// constructor

// type of the constructor

// ng version

// resume Bootstrap

// get Testability

// version

// resume Bootstrap

// get Testability

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

// Do not declare as `module` to avoid webpack bug

export const bootstrap: typeof angular.bootstrap = (e, modules,

getConfig?) => angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug

export const module_: typeof angular.module = (prefix,

+dependencies?) => angular.module(prefix, dependencies);

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

element.cleanData = nodes => angular.element.cleanData(nodes);

export const injector: typeof angular.injector =

+ (modules: Array<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);

// Do not declare as `module` to avoid webpack bug

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';
export const REQUIRE_NG_MODEL = '$ngModel';
export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

export const REQUIRE_PROPS = '?prop|Attr$|propAndAttr$|prop&Attr$';

export const 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.parenAttr = `\((\[${this.attr}\]\))`;
    this.onAttr = `\on\[${this.attr}\]`;
    this.bindAttr = `\bind\[${this.attr}\]`;
    this.bindonAttr = `\bind\_${this.attr}\_${this.attr}`;

    this.constructor(public prop: string, public attr: string) {
      this.parseBinding();
    }
  }
}

/**
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 */

import {Injector, Type} from...
'@angular/core';\n\nimport {IInjectorService, INgModelController} from './angular1';\nimport
{DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';\n\nconst
DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)[:\\-_]/i;\nconst DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\\_]+(.)/g;\n\nexport function onError(e: any) {\n // TODO: (misko): We seem to not have a stack trace here!\n if
(console.error) {\n console.error(e, e.stack);\n } else {\n // tslint:disable-next-line:no-console\n console.log(e,
e.stack);\n }\n throw e;\n}\n\nexport function controllerKey(name: string): string {\n return '$' + name +
'Controller';\n}\n\nexport function directiveNormalize(name: string): string {\n return
name.replace(DIRECTIVE_PREFIX_REGEXP, '')\n
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_,
letter) => letter.toUpperCase());\n}\n\nexport function getTypeName(type: Type<any>): string {\n // Return the
name of the type or the first line of its stringified version.\n return (type as any).overriddenName || type.name ||
type.toString().split('\\n')[0];\n}\n\nexport function getDowngradedModuleCount($injector: IInjectorService):
number {\n return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n
0;\n}\n\nexport
function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {\n 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

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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);
}

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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 {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

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

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

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

    this.element.empty !();

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

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const
      providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create(
        {providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    const testability = this.componentRef.injector.get(Testability, null);
    const childInjector =
        this.componentFactory.create(childInjector,
            projectableNodes, this.element[0]);
    this.viewChangeDetector =
        this.componentRef.changeDetectorRef;
    this.changeDetector =
        this.componentFactory.createChangeDetectorRef();
    this.componentScope = this.componentFactory.instance;
    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref/bootsstrap() in
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    // testability hook.
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry).
    }
  }

  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 $watch() will call this function.
            if (!strictEquals(prevValue, currValue)) {
              prevValue = currValue;
            }
          };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);
        // Use $watch() (in addition to $observe()) in
        // order to initialize the input in time
        // for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
        // which means that `ngOnChanges()` (which is called by a watcher) will run before the $observe() callback.
        let unwatch: Function|null = this.componentScope.$watch(() => {
          unwatch !();
        });
      }
    }
  }
}
```
unwatch = null;
observeFn(attrs[input.attr]);
else if (attrs.hasOwnProperty(input.bindAttr))
  expr = attrs[input.bindAttr];
else if (attrs.hasOwnProperty(input.bracketAttr))
  expr = attrs[input.bracketAttr];
else if (attrs.hasOwnProperty(input.bindonAttr))
  expr = attrs[input.bindonAttr];
else if (attrs.hasOwnProperty(input.bracketParenAttr))
  expr = attrs[input.bracketParenAttr];
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 = !!<OnChanges>prototype.ngOnChanges);

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

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

((this.scope, v) => getter(this.scope, {'$event': v})
      )
      else {
        throw new Error('Expression "$(' + v + ')$" is not assignable!');
      }
    });

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

into `ngContent` groups, based on the given content selectors.

```typescript
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[ngContentIndices[i]].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;
}

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;
}

let _matches; // cached version of matchesSelector

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

/**
 * Synchronous, promise-like object.
 *
 * @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 Angular component to be used from AngularJS.

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

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).

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

* The type of the Component that will be downgraded
  * `component: Type<any>`: The name of the downgraded module (if any) that the component
    * `propagateDigest?: boolean`: Whether to perform change detection when the component needs to be instantiated.

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

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).

@publicApi

```typescript
export function downgradeComponent(info: {
  component: Type<any>
  downgradedModule?: string;
  propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string;
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string;
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string;
}): any /* angular.IInjectable */ {
  const directiveFactory:
    IAnnotatedFunction = function(
      $compile: ICompileService, $injector: IInjectorService, $parse:
        IParseService): IDirective {
    // When using `downgradeModule()`, we need to handle certain things specially. For
    // example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be
      // dirty-
      // checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
      // Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't
    // force it back
    // - We need to ensure that the view is compiled before the component is instantiated.
    //   This is needed, because 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:
    //   1. There is no parent component (thus no
`parentInjector`), we bootstrap the downgraded component of the `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`. 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 component of the same `NgModule` belongs to a different `NgModule`, use the module injector.

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. `const finalModuleInjector = moduleInjector || parentInjector !;`

If there is a parent component that belongs to the same `NgModule`, use its injector. `const moduleInjector = moduleInjector || parentInjector !;`

If there is a parent component, use its injector as parent 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. `const moduleInjector = moduleInjector || parentInjector !;`

If there is a parent component that belongs to the same `NgModule`, use its injector. `const moduleInjector = moduleInjector || parentInjector !;`

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. `const moduleInjector = moduleInjector || parentInjector !;`

If there is a parent component that belongs to the same `NgModule`, use its injector. `const moduleInjector = moduleInjector || parentInjector !;`

If this is a "top-level" Angular component, use the module injector. `const moduleInjector = moduleInjector || parentInjector !;`

If there is a parent component that belongs to the same `NgModule`, use its injector. `const moduleInjector = moduleInjector || parentInjector !;`

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. `const moduleInjector = moduleInjector || parentInjector !;`

If there is a parent component that belongs to the same `NgModule`, use its injector. `const moduleInjector = moduleInjector || parentInjector !;`
LICENSE file at https://angular.io/license

```typescript
/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function that provides access to the Angular
 * service identified by the
 * `token` parameter.
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is provided in an `NgModule` that
 * will be part of the upgrade application. For example, let's assume we have
 * defined `HeroesService`:
 *
 * ```typescript
 * import {HeroesService} from './angular1';
 * @NgModule({ providers: [HeroesService] })
 * export class AppComponent {
 *   heroes = HEROES;
 * }
 * ```
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module:
 *
 * ```typescript
 * import {HeroesService} from './angular1';
 * import { downgradeInjectable } from './downgrade';
 *
 * @NgModule({ providers: [HeroesService] })
 * export class AppModule {
 *   ngModuleRef: NGModuleRef;
 *  HeroesService = downgradeInjectable(HeroesService);
 * }
 * ```
 *
 * Next we can include this in our upgrade app:
 *
 * ```typescript
 * import {HeroesService} from './angular1';
 *
 * @NgModule({ providers: [HeroesService] })
 * export class AppComponent {
 *   heroes = HEROES;
 * }
 * ```
 *
 * Inside an AngularJS component's controller we can get hold of the service via the
 * name we gave when downgrading:
 *
 * ```javascript
 * const heroesService = downgradeInjectable(HeroesService);
 * const heroes = heroesService.heroes;
 * ```
 *
 * 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.
 *
 * @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 use for instantiating the injectable.
 *
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular module.)
 *
 * @returns a factory function that can be used to register the service on an
 * AngularJS module:
 *
 * ```typescript
 * import {HeroesService} from './angular1';
 *
 * MyAnnotations.HeroesService = downgradeInjectable(HeroesService);
 * ```
 *
 * @publicApi
 * */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

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

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

  return factory;
}
```
Open Source Used In MSX Managed Device Service Pack 3.9.0

IInjectorService) {\n  return i.get('$parse');\n}\n\nexport const angular1Providers = [
  // We must use exported named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that will be reported at runtime:
  // > Function calls are not supported:
  // > Consider replacing the function or lambda with a reference to an exported function
  {provide: 'Sinjector', useFactory: injectorFactory, deps: []},
  {provide: 'SrootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: 'Scompile', useFactory: compileFactory, deps: ['$injector']},
  {provide: 'Sparse', useFactory: parseFactory, deps: ['$injector']},
  {provide: 'Slicense', useFactory: CopyrightGoogleInc, deps: []}
];

const injectorFactory = (injector: Injector, NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as

export const angular1Providers = [
  // We must use exported
  // named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that
  // will be reported at runtime:
  // > Function calls are not supported:
  // > Consider replacing the function or
  // lambda with a reference to an exported function
  // to get the 'Sinjector', useFactory: injectorFactory, deps: []],
  // To get the 'SrootScope', useFactory: rootScopeFactory, deps: ['$injector'],
  // To get the 'Scompile', useFactory: compileFactory, deps: ['$injector'],
  // To get the 'Sparse', useFactory: parseFactory, deps: ['$injector'],
  // To get the 'Slicense', useFactory: CopyrightGoogleInc, deps: []
];

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  // To get the 'SrootScope', useFactory: rootScopeFactory, deps: ['$injector'],
  // To get the 'Scompile', useFactory: compileFactory, deps: ['$injector'],
  // To get the 'Sparse', useFactory: parseFactory, deps: ['$injector'],
  // To get the 'Slicense', useFactory: CopyrightGoogleInc, deps: []
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  // > Function calls are not supported:
  // > Consider replacing the function or
  // lambda with a reference to an exported function
  // to get the 'Sinjector', useFactory: injectorFactory, deps: []],
  // To get the 'SrootScope', useFactory: rootScopeFactory, deps: ['$injector'],
  // To get the 'Scompile', useFactory: compileFactory, deps: ['$injector'],
  // To get the 'Sparse', useFactory: parseFactory, deps: ['$injector'],
  // To get the 'Slicense', useFactory: CopyrightGoogleInc, deps: []
];

const injectorFactory = (injector: Injector, NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as

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  // named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that
  // will be reported at runtime:
  // > Function calls are not supported:
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  // lambda with a reference to an exported function
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  // To get the 'SrootScope', useFactory: rootScopeFactory, deps: ['$injector'],
  // To get the 'Scompile', useFactory: compileFactory, deps: ['$injector'],
  // To get the 'Sparse', useFactory: parseFactory, deps: ['$injector'],
  // To get the 'Slicense', useFactory: CopyrightGoogleInc, deps: []
];

const injectorFactory = (injector: Injector, NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as

export const angular1Providers = [
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  // named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that
  // will be reported at runtime:
  // > Function calls are not supported:
  // > Consider replacing the function or
  // lambda with a reference to an exported function
  // to get the 'Sinjector', useFactory: injectorFactory, deps: []],
  // To get the 'SrootScope', useFactory: rootScopeFactory, deps: ['$injector'],
  // To get the 'Scompile', useFactory: compileFactory, deps: ['$injector'],
  // To get the 'Sparse', useFactory: parseFactory, deps: ['$injector'],
  // To get the 'Slicense', useFactory: CopyrightGoogleInc, deps: []
];

const injectorFactory = (injector: Injector, NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as

export const angular1Providers = [
  // We must use exported
  // named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that
  // will be reported at runtime:
  // > Function calls are not supported:
  // > Consider replacing the function or
  // lambda with a reference to an exported function
  // to get the 'Sinjector', useFactory: injectorFactory, deps: []],
  // To get the 'SrootScope', useFactory: rootScopeFactory, deps: ['$injector'],
  // To get the 'Scompile', useFactory: compileFactory, deps: ['$injector'],
  // To get the 'Sparse', useFactory: parseFactory, deps: ['$injector'],
  // To get the 'Slicense', useFactory: CopyrightGoogleInc, deps: []
];
'UpgradeModule' that affect the behavior of hybrid applications:

1. Unlike 'UpgradeModule', 'downgradeModule()' does not bootstrap the main AngularJS module inside the @ link NgZone Angular zone.

2. Unlike 'UpgradeModule', 'downgradeModule()' does not automatically run \$digest() when changes are detected in the Angular part of the application. What this means is that applications using 'UpgradeModule' will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary. 'downgradeModule()', on the other side, does not try to tie the two change detection systems as tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed. For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance). You can manually trigger a change detection run in AngularJS using `scope.$apply(...)` or \$rootScope.$digest() when changes are detected in the Angular part of the application.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. `downgradeModule()` only 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

```javascript
function downgradeModule<T>(moduleFactoryOrBootstrapFn: NgModuleFactory<T> | ((extraProviders: StaticProvider[]) => Promise<NgModuleRef<T>>)):
```

'

```javascript
const lazyModuleName = `${UPGRADE_MODULE_NAME}.lazy${++moduleUid}`;
const lazyModuleRefKey = `${LAZY_MODULE_REF}${lazyModuleName}`;
const lazyInjectorKey = `${INJECTOR_KEY}${lazyModuleName}`;
```

If this is not your intention, you can have a shared module (that will act as act as the \`root\` module) and create all downgraded modules using that module's injector:

```javascript
const lazyModuleRef = {
  promise: bootstrapFn(angular1Providers).then(ref => {
    injector = ref.injector;
    injector.get($INJECTOR);
    return injector;
  })
};
```

let injector:
```

```javascript
let injector: Injector;
// Create an ng1 module to bootstrap. angularModule(lazyModuleName, [])
```

`.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite) .factory(INJECTOR_KEY, [lazyInjectorKey, identity]) .factory(lazyModuleName, lazyModuleRefKey, () => { (injector) {

```javascript
throw new Error('Trying to get the Angular injector before bootstrapping the corresponding \`Angular module.\`');
```

```javascript
return injector;
```

```javascript
.factory(LAZY_MODULE_REF, [lazyModuleRefKey, identity]) .factory(lazyModuleName, lazyModuleRefKey, () => {
```

```javascript
const resolveLazyModuleRef = (injector: Injectables) => {
```

```javascript
return injector.get($INJECTOR);
```

```javascript
$injector, SPROVIDE
```

($injector: Injectables, SPROVIDE: SPROVIDE) => {

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

```javascript
injector = result.injector = new NgAdapterInjector(ref.injector);
```

```javascript
return injector;
```

```javascript
});
```

```javascript
аторs);.
```

```javascript
ator.get($INJECTOR);
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```javascript
 Injector();
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```javascript
ctor.$inject;
```
angularElement.cleanData(this.element.querySelectorAll('*'));

  prepareTransclusion(): ILinkFn|undefined
  {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
      // `$template` is empty. Since the transcluded content comes from Angular, not AngularJS,
      // there will be no transclusion scope here.
      // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
      // `scope` is `null` if `$destroy () => undefined`; `return cloneAttachFn !(Stemplate, scope)`
      let Stemplate = contentChildNodes;  // `null` if (transclude) {
        const slots = Object.create(null);  // `null` if (typeof transclude === 'object') {
          Stemplate = [];  // `null` if (true) {`null` const slotMap = Object.create(null);}
        }
        const filledSlots = Object.create(null);  // `null` if (null) // Parse the element selectors.
        Object.keys(transclude).forEach(slotName => {
          let selector = transclude[slotName];
          const optional = selector.charAt(0) === '?';
          selector = optional ? selector.substring(1) : selector;

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

        // Add the matching elements into their slot.
        Object.keys(filledSlots).forEach(slotName => {
          const nodes = filledSlots[slotName];
          filledSlots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
            return cloneAttach(nodes, scope);
          };
        });

        // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
        // removes all text content after the first interpolation and updates it later, after\n        // evaluating the expressions. This would result in AngularJS failing to recognize text\n        // nodes that start with an interpolation as transcluded content and use the fallback\n        // content instead.\n        // To avoid this issue, we add a\n        // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n        // to empty text nodes (which can only be a result of Angular removing their initial content).\n        // NOTE: Transcluded text content that starts with whitespace followed by an interpolation\n        // will still fail to be detected by AngularJS v1.6+\n        $template.forEach(node => {
          if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
            node.nodeValue = '\u200C';
          }
        });
      };
      return attachChildrenFn !(null);
    };
    return attachChildrenFn;
  }

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);

    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
      requiredControllersMap = requiredControllers as{
        const requiredControllers = this.resolveRequire(directiveRequire);
        const key = this.directive.bindToController && isMap(directiveRequire)
        const firstChild = this.element.firstChild;
        const childNodes = firstChild.childNodes;
        return childNodes;
      };
      return Object.keys(requiredControllers).forEach(key => {
        const controllerInstance = this.controllerInstances[key];
        if (controllerInstance) {
          const requiredControllers = this.resolveRequire(directiveRequire);
          const key = this.directive.bindToController && isMap(directiveRequire)
          const firstChild = this.element.firstChild;
          const childNodes = firstChild.childNodes;
          return childNodes;
        };
      });
    };

    const directiveRequirement: DirectiveRequirementProperty = (key, require) => {
      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 = require.value || require.key;

    if (!value) {

      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 = require.value || require.key;

    if (!value) {

      require[key] = match[0] + key;
    }

  }

  return 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}'.`);

};

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

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

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

class Bindings {

  twoWayBoundProperties: string[] = [];

  expressionBoundProperties: string[] = [];

  propertyToOutputMap: {[propName: string]: string} = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
 * Angular templates.
 *
 * *Part of the 
 * 
 * *Library for hybrid upgrade apps that
 * support AOT compilation.*
 *
 * This helper class should be used as a base class for creating Angular directives
 * that wrap AngularJS components that need to be upgraded.
 *
 * Let's assume that you have an AngularJS component called 'ng1Hero' that needs
 * to be made available in Angular templates.
 *
 * We must create a `Directive` that will make this AngularJS component
 * available inside Angular templates.
 *
 * This directive must be created with the following properties:
 *
 * @link Directive `@Directive` decorator.
 *
 * This is because the AOT compiler requires that this information is statically available
 * compile time.
 *
 * Note that we must do the following:
 *
 * * specify the directive's selector (`ng1-hero`)  
 * * specify all inputs and
 * outputs that the AngularJS component expects
 * * derive from the `UpgradeComponent` base class but also provide an
 *   * `@link Directive `@Directive` decorator.
 *   * The `ElementRef` and
 *   * `publicApi` class.
 *
 * OnInit, OnChanges, OnDestroy implementations:
 *
 * private helper: UpgradeHelper;
 * private $injector: IInjectorService;
 * private $element: IAugmentedJQuery;
 * private $componentScope: IScope;
 * private controllerInstance!: IControllerInstance;
 * private element: Element;
 * private ScomponentScope: IScope;
 * private directive: IDirective;
 * private bindings: Bindings;
 *
 * TODO(issue/24571): remove (!$). then private bindingDestination!: IBindingDestination;
 * We will be instantiating the controller in the

'ngOnInit' hook, when the
// first 'ngOnChanges' will have been already triggered. We store the
'a private pendingChanges is
SimpleChanges | null;'
// TODO(issue/24571): remove this
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
 * *in * * The 'name' parameter should be the name of the AngularJS directive.
 * 'The 'elementRef' and 'injector' parameters should be acquired from Angular by dependency
 * injection into the base class constructor.
 */

class UpgradeComponent {
  constructor(name: string, elementRef: ElementRef, injector: Injector) {
    this.helper = new UpgradeHelper(name, elementRef, injector);
    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);
    this.$componentScope = $parentScope.$new(!!this.directive.scope);
    this.initializeOutputs();

    // Hook: $onChanges
    if (this.pendingChanges) {
      this.forwardChanges(this.pendingChanges);
      this.pendingChanges = null;
    }

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

    // Hook: $doCheck
    if (isFunction(this.controllerInstance.$doCheck)) {
      this.$componentScope.$parent.$watch(() => this.controllerInstance.$doCheck(), () => {
        this.$componentScope.$parent.$root.$linkFn();
      });
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.$componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});
    if (postLink) {
      postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

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

    // Destructor
    this.helper.onDestroy(this.$componentScope, this.controllerInstance);
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate();

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

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

    // Require other controllers
    const requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onChanges
    if (this.pendingChanges) {
      this.forwardChanges(this.pendingChanges);
    }

    // Hook: $doCheck
    if (isFunction(this.controllerInstance.$doCheck)) {
      this.$componentScope.$parent.$watch(() => this.controllerInstance.$doCheck(), () => {
        this.$componentScope.$parent.$root.$linkFn();
      });
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.$componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});
    if (postLink) {
      postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

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

    // Destructor
    this.helper.onDestroy(this.$componentScope, this.controllerInstance);
  }

  ngOnChanges(changes: SimpleChanges) {
    if (!this.bindingDestination) {
      const callDoCheck = () => this.controllerInstance.$doCheck();
      callDoCheck();
      if (isFunction(this.controllerInstance.$doCheckWatcher)) {
        this.controllerInstance.$doCheckWatcher();
      }
    } else {
      const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
      const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
      const propertyToOutputMap = this.bindings.propertyToOutputMap;
      const newValues = this.bindings.newValues;
      const oldValues = this.bindings.oldValues;
      for (const propName in newValues) {
        const newValuesMap = newValues[propName];
        const oldValuesMap = oldValues[propName];
        if (newValuesMap !== oldValuesMap) {
          const outputName = propertyToOutputMap[propName];
          const eventEmitter = EventEmitter.any((x) => (x as any)[outputName]);
          eventEmitter.emit(newValuesMap);
        }
      }
    }
    this.ngOnChanges(changes: SimpleChanges) if (!this.bindingDestination) {
  }

  ngOnDestroy() {
    if (isFunction(this.unregisterDoCheckWatcher)) {
      this.unregisterDoCheckWatcher();
    }
  }

  private initializeBindings(dir: string, el: ElementRef, inj: Injector) {
    // Create a new 'UpgradeComponent' instance. You should not normally need to do this.
    // Instead you should derive a new class from this one and call the super constructor.
    // 'The 'name' parameter should be the name of the AngularJS directive.
    // 'The 'elementRef' and 'injector' parameters should be acquired from Angular by dependency
    // injection into the base class constructor.
    }
IDirective) {
  const btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject &
      Object.keys(directive.scope).length) {
    throw new Error('Binding definitions on scope and controller at the same time is not supported.');
  }

  const context = btcIsObject ? directive.bindToController :
      directive.scope;
  const bindings = new Bindings();
  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);


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

  return bindings;
}

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

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

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

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

  if (isFunction(this.bindingDestination.$onChanges)) {
    this.bindingDestination.$onChanges(changes);
  }
}

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

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

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

/**
 * @description
 *
 * An `NgModule`, which you import to provide
 * AngularJS core services, and has an instance method used to bootstrap the hybrid application.
 *
 * Part of the 
 * 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:
 * The creation of an Angular directive that wraps and exposes an AngularJS component so
 * that it can be used in an Angular template. See
 * `UpgradeComponent`.
 * Creation of an AngularJS directive that wraps and exposes an Angular component so
 * that it can be used in an AngularJS template. See `downgradeComponent`.
 * Creation of an Angular root
 * injector provider that wraps and exposes an AngularJS service so
 * that it can be injected into an Angular context. See
 * `UpgradeModule#upgrading-an-angular-1-service`.
 *
 * Bootstrapping of a hybrid Angular application which contains both of the frameworks
 * coexisting in a single application.
 */

import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY,
LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
'../../src/common/src/constants';
import {NgAdapterInjector} from './util';

@NgModule({
  bootstrap: [UpgradeComponent],
  providers: [UpgradeModule, UpgradeAppType, controllerKey]})
export class UpgradeModule {
  constructor() {
    // Implement the `UpgradeModule` class
  }
}


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

See also the [link UpgradeModule#examples examples] below.

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

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

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

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#injector root injector`, the `upgradeZone: NgZone` and the AngularJS $injector.

Importing this `NgModule` will add providers for the core AngularJS services (https://docs.angularjs.org/api/ng/service) to the root injector.

The runtime instance of this class contains a ( [link UpgradeModule#bootstrap `bootstrap()` } method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade application. It also contains properties to access the ( [link UpgradeModule#injector root injector }, the `bootstrap` `NgZone` and the AngularJS $injector). Import the `UpgradeModule` into your top level AngularJS module.

There is no specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:

1. Let's say you have an AngularJS service:

   ```
   @example upgrade/static/ts/full/module.ts region="ng1-text-formatter-service"
   ```

   Then you should define an Angular provider to be included in your `NgModule` `providers` property.

2. Then you can use the `UpgradeModule` service by injecting it into an Angular component:

   ```
   @example upgrade/static/ts/full/module.ts region="use-ng1-upgraded-service"
   ```

   The Angular Injector will use the `UpgradeModule` service to upgrade the AngularJS service.

   ```
   @example upgrade/static/ts/full/module.ts region="upgrade-ng1-service"
   ```

   There are no specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:

   ```
   @example upgrade/static/ts/full/module.ts region="upgrade-ng1-service"
   ```

   Finally, kick off the whole process, by bootstrapping your top level AngularJS module onto an element in the DOM for the hybrid upgrade application.
application from this NgModule
   * @param element the element on which to bootstrap the AngularJS
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   * @param bootstrap\(\) create an ng1 module to bootstrap
   * const initModule = angularModule\(INIT_MODULE_NAME, [\]\)
   
   const injector = this.injector;
   // Cannot use arrow function below because we need the
   
   context
   const newWhenStable = function\(callback: Function\) {\n     originalWhenStable.call(testabilityDelegate, function() {\n       const ng2Testability = injector.get<Testability>(\n         testabilityDelegate.whenStable();\n       }\n     }\n   }\n
   testabilityDelegate.whenStable = newWhenStable;\n   return testabilityDelegate;\n   return wrappedInterval;\n   }\n
   wrappedInterval as any)\['cancel'\] = intervalDelegate.cancel;\n   return wrappedInterval;\n   }\n
   setTempInjectorRef\(this.injector\);\n   this.$injector = this.injector;\n   \n   // Wire up the ng1 rootScope to run a digest cycle
   when the zone settles\n   \n   // need to do this in the next tick so that we don't prevent the bootup\n   \n   // stabilizing
   const subscription = this.$ngZone.onMicrotaskEmpty.subscribe(() => {\n     if ($rootScope.$$phase) {\n       if (isDevMode()) {\n         console.warn('A digest was triggered while one
       }\n     }\n   }\n   return $rootScope.$evalAsync();\n   }\n
   return $rootScope.$digest();\n   }\n
   // patch resumeBootstrap() to run inside the ngZone
   const windowAngular = (window as any)['angular'];
   windowAngular.resumeBootstrap = undefined;\n   return $rootScope.$evalAsync();\n   }\n
   return $rootScope.$digest();\n   }\n
   // patch resumeBootstrap() to run inside the ngZone
   const upgradeModule = angularModule\(UPGRADE_MODULE_NAME, \[\]\)
   \n   // Make sure resumeBootstrap() only exists if the current
   bootstrap is deferred\n   const windowAngular = (window as any)[\'angular\'];\n   windowAngular.resumeBootstrap = undefined;\n   // Bootstrap the AngularJS application inside our zone
   this.$ngZone.run\(() => {\n     bootstrap\(element, [upgradeModule.name], config\);\n   }\n   }\n
   return $rootScope.$digest();\n   }\n
   const INIT_MODULE_NAME = UPGRADE_MODULE_NAME + \'.init\';
   // Create an ng1 module to bootstrap
   const initModule = angularModule\(INIT_MODULE_NAME, [\]\)
   .constant\(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static\)
   .value\(INJECTOR_KEY, this.injector\)
   .factory\(\n   LazyModuleRef, \n   [\n     INJECTOR_KEY, \n     (injector: Injector) => {\n       injector as LazyModuleRef;\n     }\n   ]\n   \n   .provide\($provide\, IProvideService,\n   $injector: IInjectorService) => {\n     $provide: IProvideService,\n     \n     $provide.decorator\(\$TESTABILITY, \n     [\n       SDELEGATE,\n       (testabilityDelegate: ITestabilityService) => {\n         const originalWhenStable: Function = testabilityDelegate.whenStable;
         const injector = this.injector;
         const whenStable = newWhenStable;\n         const injector = this.injector;
         injector.get\(\(Testability\);\n         }\n     }\n   }\n
   \n   $provide.decorator\($INTERVAL, \n   SDELEGATE,\n   (intervalDelegate: IntervalService) => {\n     let wrappedInterval = (fn: Function, delay: number,\n       count?: number, invokeApply?: boolean, \n       ...pass: any[]) => {\n       return this.$ngZone.runOutsideAngular(() => {\n         const ng2Testability = injector.get\(Testability;\n         if (ng2Testability.isStable()) {\n           return intervalDelegate((...args: any[]) => {\n             return $rootScope.$evalAsync();\n           });\n         } else {\n           ng2Testability.whenStable(\n             return intervalDelegate((...args: any[]) => {\n             return $rootScope.$evalAsync();\n           });\n         }\n       }\n     }\n   }\n
   \n   return wrappedInterval;\n   }\n
   wrappedInterval as any)\['cancel'\] = intervalDelegate.cancel;\n   return wrappedInterval;\n   }\n
   (controllerKey\(INJECTOR_KEY\), this.injector);\n   \n   // Wire up the ng1 rootScope to run a digest cycle
   when the zone settles\n   \n   // We need to do this in the next tick so that we don't prevent the bootup\n   \n   // stabilizing
   settimeout(() => {\n     const $rootScope = injector.get\(\'$rootScope\');\n     $rootScope.$$phase;\n     'A digest was triggered while one
   }\n
   return $rootScope.$evalAsync();\n   }\n
   return $rootScope.$digest();\n   }\n
   // patch resumeBootstrap() to run inside the ngZone
   const windowAngular = (window as any)['angular'];
   windowAngular.resumeBootstrap = undefined;\n   // Bootstrap the AngularJS application inside our zone
   this.$ngZone.run\(() => {\n     bootstrap\(element, [upgradeModule.name], config\);\n   }\n   }\n
   return $rootScope.$digest();\n   }\n
   return $rootScope.$digest();\n   }\n
   // 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;
    return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
  }
}

/**
 * Generated bundle index. Do not edit.
 */

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, rootScopeFactory as ɵangular_packages_upgrade_static_static_b}

from './src/angular1_providers';
Open Source Used In MSX Managed Device Service Pack 3.9.0

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/fesm2015/static.js.map

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

```javascript
/**
 * @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
 */

/**
 * @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');
```
...args: any[]): void; Function

$destroy(): any;

$apply(exp?: Ng1Expression): any;

$digest(): any;

SevalAsync(exp: Ng1Expression, locals?: any): void;

$on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;

$childTail: IScope

$childHead: IScope

$nextSibling: IScope

[key: string]: any;

$unwrap interface IScope extends IRootScopeService { [unexport interface IAngularBootstrapConfig { strictDi?: boolean; }

} export interface IDirective { [unexport interface IAngularCompileFn]: controller?: IController; controllerAs?: string;

bindToController?: boolean][[key: string]: string]

link?: IDirectiveLinkFn

[unexport interface IDirectivePrePost

name?: string;

priority?: number;

replace?: boolean;

require?: DirectiveRequireProperty;

restrict?: string;

scope?: boolean;

transclude?: DirectiveTranscludeProperty;

unexport type DirectiveRequireProperty = SingleOrListOrMap<string>;

unexport type DirectiveTranscludeProperty = boolean | 'element' | [key: string]: string

unexport interface IDirectiveCompileFn { [unexport interface ICompiledExpression { (context: any, locals: any): any; assign?: (context: any, value: any) => any; }

IProvider { $get: IInjectable; } 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;

decorator(token: Ng1Token, factory: Injectable): void;

unexport interface IHttpBackendService { (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, withCredentials?: boolean): void;

unexport interface ICacheObject { put<T>(key: string, value?: T): T;

get(key: string): any;

unexport interface ICacheObject extends ICacheObject {}

ITemplateRequestService { (template: string|any /* TrustedResourceUrl */ , ignoreRequestError?: boolean): Promise<string>;[unexport interface ITemplateService { (template: string|any /* TrustedResourceUrl */ )

totalPendingRequests: number;

unexport interface IControllerService { (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;

unexport interface INgModelController { $render(): void;

$isEmpty(value: any): boolean;

$setValidity(validationErrorKey: string, isValid: boolean): void;

$setPristine(): void;

$setDirty(): void;


ngUpgrade` app.

// App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
ngUpgrade`).

// App using `@angular/upgrade/static` with `UpgradeModule`. Static,
// App using `@angular/upgrade/static` with `downgradeModule` (a.k.a. `ngUpgrade`-lite).

Lite,

None,

// App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
ngUpgrade`).

Dynamic,

// App using `@angular/upgrade/static` with `UpgradeModule`. Static,

Static,

// App using `@angular/upgrade/static` with `downgradeModule` (a.k.a. `ngUpgrade`-lite).

Lite,

None,

// App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
ngUpgrade`).

Dynamic,

// App using `@angular/upgrade/static` with `UpgradeModule`. Static,

Static,

// App using `@angular/upgrade/static` with `downgradeModule` (a.k.a. `ngUpgrade`-lite).

Lite,

None,

// App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
ngUpgrade`).

Dynamic,

// App using `@angular/upgrade/static` with `UpgradeModule`. Static,

Static,

// App using `@angular/upgrade/static` with `downgradeModule` (a.k.a. `ngUpgrade`-lite).

Lite,

None,

// App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
ngUpgrade`).

Dynamic,
propagateDigest = true): void {
  \n  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 = stringOrNull(null);
    if (attrs.hasOwnProperty(input.attr)) {
      const observeFn = (prop => {
        let prevValue = INITIAL_VALUE;
        return (currValue: any) => {
          // Initially, both `observe()` and `$watch()` will call this function.
          if (strictEquals(prevValue, currValue)) {
            return;
          }
          let unwatch: Function|null = this.componentScope.$watch(() => {
            unwatch !();
            unwatch = null;
          });
          this.updateInput(prop, prevValue, currValue);
          prevValue = currValue;
        };
      }(input.prop));
      attrs.observeFn = observeFn;
      // Use `$watch()` (in addition to `observe()`) in order to initialize the input in time
      // for `ngOnChanges()`. This is necessary if we are already in a `digest`, which
      // means that the `ngOnChanges()` (which is called by a watcher) will run before the `observe()`
      // callback. let unwatch: Function = null; this.componentScope.$watch(() => {
      unwatch = null;
    }
    this.observeFn = observeFn;
    if (prevValue !== INITIAL_VALUE) {
      prevValue = currValue;
    }
    this.updateInput(prop, prevValue, currValue);
    prevValue = currValue;
    observeFn(attrs[input.attr]);
    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 {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error('Expression `$expr` is not assignable!');
    }
    const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
    const bracketParenAttr = `[$(${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, expr, true);
    } else if (attrs.hasOwnProperty(bracketParenAttr)) {
      this.subscribeToOutput(output, expr, true);
    } else if (attrs.hasOwnProperty(output.onAttr)) {
      this.subscribeToOutput(output, expr, true);
    } else if (attrs.hasOwnProperty(output.parenAttr)) {
      this.subscribeToOutput(output, expr, true);
    }
  }

  setupOutputs() {
    const attrs = this.attrs;
    const outputs = this.componentFactory.outputs || [];
    for (let j = 0; j < outputs.length; j++) {
      const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
      const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
      const bracketParenAttr = `[$(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;
      if (s$0) {
        // order below is important - first update bindings then evaluate expressions
        if (attrs.hasOwnProperty(bindonAttr)) {
          this.subscribeToOutput(output, attrs[bindonAttr], true);
        } else if (attrs.hasOwnProperty(bracketParenAttr)) {
          this.subscribeToOutput(output, attrs[bracketParenAttr], true);
        } else if (attrs.hasOwnProperty(output.onAttr)) {
          this.subscribeToOutput(output, attrs[output.onAttr], true);
        } else if (attrs.hasOwnProperty(output.parenAttr)) {
          this.subscribeToOutput(output, attrs[output.parenAttr], true);
        } else {
          throw new Error('Missing emitter `$output[prop]` on component

  private subscribeToOutput(output: OutputBinding, 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) : getter(this scope, {'$event': v}) : getter(this scope, v)
      });
    } else {
      throw new Error('Missing emitter `$output[prop]` on component

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```
${getTypeName(this.componentFactory.componentType)}();
}

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

    this.inputChangeCount++;
    this.component[prop] = currValue;
}

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

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [[]];
    let wildcardNgContentIndex: number = -1;

    for (let i = 0; i < ngContentSelectors.length; i++) {
        projectableNodes[i] = [];
    }

    for (let j = 0; j < nodes.length; 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;
}
```
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
[\`downgrading\` an Angular component](#downgradeComponent), which needs to be made available in AngularJS templates.

 * 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 `\`downgraded\` component.

 * 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.

 * - `propagateDigest?: boolean`: Whether to perform change detection on the component on every

 * - `inputs?: string[]`: A list of input properties.

 * - `outputs?: string[]`: A list of output properties.

 * - `selectors?: string[]`: A list of selector expressions.

 * @returns a factory function that can be used to register the component in an
AngularJS module.

 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string;
  propagateDigest?: boolean;
  inputs?: string[];
  outputs?: string[];
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory:
      IAnnotatedFunction = function(
      $compile: ICompileService, $injector: IInjectorService, $parse:
      IParseService): IDirective {
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be
    //   dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
    //   Angular zone.
    // NOTE: This is not needed, when using \`UpgradeModule\`, because \`$digest\` will be run
    // 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($injector) > 1);
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
    NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;
    \`upgrade\`
    // When downgrading multiple
    modules, special handling is needed wrt injectors.
    const hasMultipleDowngradedModules =
    isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
    NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;
    \`upgrade\`
    // When downgrading multiple
    modules, special handling is needed wrt injectors.
    const hasMultipleDowngradedModules =
    isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
    NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;
    \`upgrade\`
    // When downgrading multiple
    modules, special handling is needed wrt injectors.
    const hasMultipleDowngradedModules =
    isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
    NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;
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>;

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 it may belong to a different ‘NgModule’, then we use the ‘parentInjector’ as ‘finalParentInjector’ and this downgraded component’s injector as ‘finalModuleInjector’.

- If there is a parent component, but it may belong to the same ‘NgModule’, we use the ‘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;

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: ${getTypeName(info.component)}`);
  }

  const injectorPromise = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);

  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
  facade.setupOutputs();
  facade.registerCleanup();

  injectorPromise.resolve(facade.getInjector());

  if (ranAsync) {
    // If this is run async, it is possible that it is not run inside a digest and initial input values will not be detected.
    scope.SevalAsync(() => {
      const downgradeFn = isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
        if (!ngZone) {
          ngZone = pInjector.get(NgZone);
        }

        wrapCallback(() => doDowngrade(pInjector, mInjector));
      };
    });
  }

  componentFactoryResolver.resolveComponentFactory(info.component) !;
}

const componentFactory = ComponentFactory<any> = moduleInjector.get(ComponentFactoryResolver);

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();

injectionPromise.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.SevalAsync(() => {
    const downgradeFn = isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(pInjector, mInjector));
    };
  });
}

// 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(([pInjector, mInjector]) =>
      downgradeFn(pInjector, mInjector));
  }
  return
directiveFactory;
}

/**
 * @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.*
 *
 * **Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation**
 *
 * **Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation**
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param
 *
 * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be
 * used to register the service on an AngularJS module.
 *
 * @publicApi
 */
export function
downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const
      injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction =
    `instantiating injectable '${injectableName}'`;

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

    const injector: Injector = $injector.get(injectorKey);
    return
    injector.get(token);
  };
  (factory as any)

  return factory;
}

// bracket-notation because
of closure - see #14441
function()
then((pInjector, mInjector)
  => downgradeFn(pInjector, mInjector));

ranAsync = true;
      }
    };

  // bracket-notation because
  directiveFactory['$inject'] = [
    Compile, INJECTOR, SPARSE];

  return
  directiveFactory;
}

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

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

import {IInjectorService} from './angular1';
import {
  INJECTOR, INJECTOR_KEY
}

import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function that provides access to the Angular
 * service identified by the `token` parameter.*
 *
 * **Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation**
 *
 * **Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation**
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param
 *
 * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be
 * used to register the service on an AngularJS module.
 *
 * @publicApi
 */
export function
downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const
      injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction =
    `instantiating injectable '${injectableName}'`;

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

    const injector: Injector = $injector.get(injectorKey);
    return
    injector.get(token);
  };
  (factory as any)

  return factory;
}

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

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

import {IInjectorService} from './angular1';
import {
  INJECTOR, INJECTOR_KEY
}

import {getTypeName, isFunction, validateInjectionKey} from './util';
IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

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

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

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

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

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

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

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

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

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

    const directive = directives[0];

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

    return directive;
  }

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

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

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

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

    this.$element.data !(controllerKey(this.directive.name !), controller);
  }

  prepareTransclusion(): ILinkFn|undefined
const transclude = this.directive.transclude;

const contentChildNodes = this.extractChildNodes();

const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
  // Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if
  // `$template` is empty. Since the transcluded content comes from Angular,
  not AngularJS,$
  // there will be no transclusion scope here.$
  // Provide a dummy `$scope.$destroy()` method
to prevent `cloneAttachFn` from throwing.

  scope = scope || {};
  $template = scope.$template || {};
  const transclonedContent = this.directive.transclude;

  if (transclonedContent) {
    const transclude = this.directive.transclude;

    const contentChildNodes = this.extractChildNodes();
    const
    attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try
      // to destroy the transclusion scope if
      // `$template` is empty. Since the transcluded content comes from Angular,
      not AngularJS,$
      // there will be no transclusion scope here.$
      // Provide a dummy `$scope.$destroy()` method
to prevent `cloneAttachFn` from throwing.

      scope = scope || {$destroy: () => undefined};

      return
    };

  };

  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 => {
        let selector = transclude[slotName];
        const optional = selector.charAt(0) === '?';
        selector = optional ? selector.substring(1) : selector;

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

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

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

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

      // AngularJS v1.6+ ignores empty or whitespace-only transcluded text
      // nodes. But Angular
      // removes all text content after the first interpolation and updates it later, after
      // evaluating the expressions. This would result in AngularJS failing to recognize text
      // nodes that start with an interpolation as transcluded content and use the fallback
      // content instead.$
      // To avoid this issue, we add
      $template.forEach(node => {
        if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
          node.nodeValue = '\u200C';
        }
      });
    }

    return attachChildrenFn;
  }

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);

    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
      const
        requiredControllersMap = requiredControllers as {
          [key: string]: IControllerInstance;
        };

      Object.keys(requiredControllersMap).forEach(key => {
        controllerInstance[key] = requiredControllersMap[key]!
      });

      return requiredControllers;
    }

    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] = name + key;
        } else {
          require[key] = match[0];
        }
      });

      return require;
    } 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 =>

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value[key] = this.resolveRequire(require[key])
} return value
} else if (typeof require === 'string') {
  const match = require.match(REQUIRE_PREFIX_RE)
  const inheritType = match[1] || match[3]
  const name = require.substring(match[0].length)
  const isOptional = !match[2]
  const searchParents = !!inheritType
  const startOnParent = inheritType === '^^'
  const ctrlKey = 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 $this.name$.'
    )
  }

  return value;
} else if (typeof require === 'string') {
  const match = require.match(REQUIRE_PREFIX_RE)
  const inheritType = match[1] || match[3]

  const name = require.substring(match[0].length)
  const isOptional = !!match[2]
  const searchParents = !!inheritType
  const startOnParent = inheritType === '^^'

  const ctrlKey = 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 $this.name$.'
    )
  }

  return value;
} else {
  throw new Error(
    `Unrecognized 'require' syntax on upgraded directive $this.name$: $require$`)
  }
}

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

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

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

/**
 * @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, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnInit, OnChanges, OnDestroy, SimpleChange, SimpleChanges, Type} from '@angular/core';

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

CAMEL_CASE = /([A-Z])/g;
const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};
const NOT_SUPPORTED: any = 'NOT_SUPPORTED';

export class UpgradeNg1ComponentAdapterBuilder {
  type: Type<any> = null;
  inputs: string[] = [];
  inputsRename: string[] = [];
  outputs: string[] = [];
  outputsRename: string[] = [];
  propertyOutputs: string[] = [];
  checkProperties: string[] = [];
  propertyMap: {
    [name: string]: string
  } = {};
  directive: IDirective = null;

  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.bindToController).length) {
      throw new Error('
        Binding definitions on scope and controller at the same time are not supported.'
      )
    }

    const context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;

    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName];
        const bindingType = definition.charAt(0);
        const bindingOptions = definition.charAt(1);
        const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

        // QUESTION: What about `=*`? Ignore?
        Throw? Support?
        const inputValue = `input_${attrName}`;
        const inputName = `input_${attrName}`;
        const inputNameChange = `inputNameChange_${attrName}`;

        switch (bindingType) {
          case '@':
          case '<':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '@':
          case '<':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
          case '=?':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.inputsRename.push(inputNameRename);
        }
      })
    }
  }
}

// NOTE: Only works for 'typeof T !== 'object'.'
function isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T
}
this.outputsRename.push(outputNameRenameChange);
this.propertyMap[outputName] = propName;
break;
}

default:

let json = JSON.stringify(context);
throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}': directive. 
`);

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}

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.`);

break;

}
lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });

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

  ngOnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance); }

  setComponentProperty(name: string, value: any) {
    this.destinationObj[this.propertyMap[name]] = value;
  }
}

/**
 * @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 {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
 *    coexisting in a single application.
 * 4. Angular directives always execute inside AngularJS framework codebase regardless of framework
 *    where they are instantiated.
 * 5. An AngularJS component can be upgraded to an Angular component. This creates
 *    a hybrid Angular application which contains both of the frameworks coexisting in a single application.
 * 6. An Angular component can be downgraded to an AngularJS component directive.
 * 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.
 * 8. AngularJS is always bootstrapped first and owns the bottom most view.
 * 9. The new application is running in Angular zone, and therefore it no longer needs calls to
 *    `$apply()`.
 *
 * @usageNotes
 * ### Mental Model
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains what is happening at the lowest level.
 * 1. There are two independent frameworks running in a single application, each framework treats
 *    the other as a black box.
 * 2. Each DOM element on the page is owned exactly by one framework. Whichever framework
 *    instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.
 * 3. AngularJS directives always execute inside AngularJS framework codebase regardless of framework
 *    where they are instantiated.
 * 4. Angular components always execute inside Angular framework codebase regardless of framework
 *    where they are instantiated.
 * 5. An AngularJS component can be upgraded to an Angular component. This creates
 *    a hybrid Angular application which contains both of the frameworks coexisting in a single application.
 * 6. An Angular component can be downgraded to an AngularJS component directive.
 * 7. Whenever an adapter component is instantiated the host element is owned by the framework doing
 *    the instantiation. The other framework then instantiates and owns the view for that component.
 * 8. AngularJS is always bootstrapped first and owns the bottom most view.
 * 9. The new application is running in Angular zone, and therefore it no longer needs calls to
 *    `$apply()`.
 *
 * @example
 * ```
 * const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
 * const module = angular.module('myExample', []);
 * module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));
 * module.directive('ng1Hello', function()) { return {
 *   scope: { title: '=' },
 *   template: 'ng1[Hello {{title}}](<span ng-transclude></span>)',
 *   controller: 'Ng2Component',
 *   controllerAs: 'ng2Comp',
 *   directives:
 * });
 * class Ng2Component {
 *   constructor($scope) {
 *     this.$scope = $scope;
 *   }
 * }
 * class MyNg2Module {
 *   constructor($injector) {
 *     this.$injector = $injector;
 *   }
 *   boot() {
 *     return new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
 *   }
 * }
 * ```
 * ```
 * document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';
 * ```
 * */
adapter.bootstrap(document.body, ['myExample']).ready(function() { 
  expect(document.body.textContent).toEqual("Hello World!");
});

```text

// private downgradedComponents: Type<any>[] = [];
// An internal map of ng1 components which need to up upgraded to ng2.

// We can't upgrade until injector is instantiated and we can retrieve the component metadata.

// For this reason we keep a list of components to upgrade until ng1 injector is bootstrapped.

// private ng1ComponentsToBeUpgraded: {[name: string]};

// We can't upgrade until injector is instantiated and we can retrieve the component metadata.

// For this reason we keep a list of components to upgrade until ng1 injector is bootstrapped.

// private constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {

// Allows Angular Component to be used from AngularJS.

// Use `downgradeNg2Component` to create an AngularJS Directive Definition Factory from

// Angular Component. The adapter will bootstrap Angular component from within the

// AngularJS template.

// This component is instantiated by being listed in AngularJS template.

// This means that the

// host element is controlled by

// Angular, but the component's view will be controlled by

// AngularJS.

// AngularJS.

// 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 `Sattrs` and `Stranclude` is not

// supported.)

// `controllerAs`: supported.

// `bindToController`: supported.

```
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NOTE: only pre-link function is supported.

* name: supported.
* require: supported.
* restrict: must be set to 'E'.
* scope: supported.
* template: supported.
* templateUrl: supported.
* terminal: ignored.
* transclude: supported.
* ** Example

- `name`: supported.
- `priority`: ignored.
- `replace`: not supported.
- `require`: supported.
- `restrict`: must be set to 'E'.
- `scope`: supported.
- `template`: supported.
- `templateUrl`: supported.
- `terminal`: ignored.
- `transclude`: supported.

* Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', [])

module.directive('greet', function() {
  return {
    scope: {
      salutation: '='
    },
    template: '\{{salutation}} \{{name}}! - <span ng-transclude></span>'
  };
});

module.directive('ng2', adapter.downgradeNg2Component(Ng2));

module.directive('ng1', function() {
  return {
    scope: {
      title: '='
    },
    template: 'ng1[\"\"Hello \{{title}}\"](!<span ng-transclude></span>)'
  };
});

@Component({
  selector: 'ng2',
  template: 'ng2 template: <greet salutation="\"Hello\"" [name]="world">text</greet>'
})
class Ng2 {
}

@NgModule({
  declarations: [Ng2, adapter.upgradeNg1Component('greet')]
})
class MyNg2Module {
}

document.body.innerHTML = '<ng2></ng2>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
});
```
rootScopePrototype = rootScopeDelegate.constructor.prototype;
if (rootScopePrototype.hasOwnProperty('$$apply')) {
  original$applyFn = rootScopePrototype.$$apply;
} else {
  throw new Error('Failed to find $$apply on $$rootScope!');
}
return rootScope = rootScopeDelegate;

ng2Testability = (exp: any) => setTimeout(() => {
  const newWhenStable: Function = testabilityDelegate.whenStable.bind(this, exp);
  if (ng2Testability.isStable()) {
    callback.apply(this, arguments);
  } else {
    ng2Testability.whenStable(newWhenStable);
  }
}, 0);

platformRef.bootstrapModule(
  DynamicNgUpgradeModule, ['@NgModule({jit: true, ...ngModule})
  @NgModule({jit: true, ...ngModule})
]
);
v5. Use `upgrade/static` instead, which also supports
* [Ahead-of-Time compilation](guide/aot-compiler).

```typescript
@publicApi
@export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn && this._readyFn(this);
  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application has been bootstrapped.
   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) { this._readyFn = fn; }

  /**
   * Dispose of running hybrid AngularJS / Angular application.
   */
  public dispose() {
    this.ng1Injector!.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef !.destroy();
  }
}
```

---

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---

@module
@description
Entry point for all public APIs of this package. allowing Angular 1 and Angular 2+ to run side by side in the same application.

---

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1.532 python-defaults 2.7.13 2
1.532.1 Available under license :

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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.

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A. HISTORY OF THE SOFTWARE

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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2.5.2 2.5.1 2008 PSF yes
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2.6 2.5 2008 PSF yes
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2.6.3 2.6.2 2009 PSF yes
2.6.4 2.6.3 2009 PSF yes
2.6.5 2.6.4 2010 PSF yes

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@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
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@c Local Variables:
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  jar/org/springframework/test/context/junit4/statements/SpringFailOnTimeout.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/util/JsonPathExpectationsHelper.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
  jar/org/springframework/test/web/servlet/setup/AbstractMockMvcBuilder.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
  jar/org/springframework/mock/web/MockRequestDispatcher.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
  jar/org/springframework/test/context/transaction/TransactionContextHolder.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/support/AbstractTestContextBootstrapper.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/annotation/SystemProfileValueSource.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/support/AbstractDelegatingSmartContextLoader.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/framework/test/context/support/ContextLoaderUtils.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/htmlunit/ForwardRequestPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/htmlunit/HtmlUnitRequestBuilder.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/web/reactive/server/FluxExchangeResult.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/DefaultMvcResult.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/mock/http/client/reactive/MockClientHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/mock/web/MockFilterConfig.java
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  jar/org/springframework/test/web/reactive/server/AbstractMockServerSpec.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/jdbc/SqlConfig.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/htmlunit/MockMvcWebClientBuilder.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/web/servlet/setup/SharedHttpSessionConfigurer.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/web/servlet/htmlunit/DefaultAsyncWebConnectionHtmlUnitDriver.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/junit4/statements/SpringRepeat.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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1.557 spring-security-config 5.2.1

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org.ow2.asm:asm

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

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

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- https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
- org.eclipse.jetty.toolchain:jetty-schemas

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1.560 spring-cloud-starter-netflix-archaius

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

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

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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1.583 cipher-base 1.0.4

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.594 ganymed-ssh2 262

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

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

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

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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## version 0.1
##
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LICENSING
==========

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The documentation in doc/ is under the GNU FDL license 1.3.

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1.599 e2fsprogs 1.43.4 2+deb9u1

1.599.1 Available under license:

# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

$(BSD_LIB): $(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::
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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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1.606 kerberos 5-1.9

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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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
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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and the initial implementation of incremental propagation, including the following new or changed files:

```c
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
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kprop/kpropd_rpc.c
kprop/kpropd_rpc.et
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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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1.623 json3 3.3.2
1.623.1 Available under license :
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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

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.
The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

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

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file with no key entry. This happens with cacerts in Java 9+ because of the changes in JEP 229, because both JKS and PKCS12 files can now be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

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

File: src/main/java/org/apache/commons/ssl/*

Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*

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The PKCS12 key derivation function was also developed by Bouncy Castle (Look for the "pkcs12()" method inside PKCS8.java).

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</pre>

1.636 mime4j 0.8.3

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### 1.639 java-getopt 1.0.13

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1.641 cassandra-driver-core 3.7.2

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1.643 core-js 1.2.7

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1.644 hamcrest 1.3

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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/configuration/KafkaPropertiesFactory.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/configuration/KafkaPropertiesFactoryImpl.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/configuration/KafkaPropertiesFactoryImplNonThreadSafe.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/configuration/KafkaPropertiesFactoryNonThreadSafeImpl.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/requestreply/AggregatingReplyingKafkaTemplate.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ConsumerRecordRecoverer.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/reactive/ReactiveKafkaTemplate.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/ProducerListenerAdapter.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/AbstractConsumerSeekAware.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/TopicPartitionOffset.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/NonResponsiveConsumerEvent.java
jar/org/springframework/kafka/listener/DeadLetterPublishingRecoverer.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/event/ConsumerStartedEvent.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/KafkaListenerEndpointAdapter.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/FailedRecordTracker.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/KafkaStreamsCustomizer.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/DefaultAfterRollbackProcessor.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/listener/adapter/RecordMessagingMessageListenerAdapter.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/annotation/KafkaListenerConfigurer.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/ProducerFactoryUtils.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/config/KafkaListenerEndpoint.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/adapter/RecordMessagingMessageListenerAdapter.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/annotation/KafkaListenerConfigurer.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/ProducerFactoryUtils.java
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GNUPG Natural Resources Canada  1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany  1998-09-17
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Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus  1998-09-18
Disclaims changes.
Weak key patches.

GNUPG

M Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
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g10 Code GmbH 2001-06-07
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LIBGCRYPT T Schulz 2001-08-31
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Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
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LIBGCRYPT Moritz Schulte 2003-04-17
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GNUTLS

N Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCRYPT

The 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
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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

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(SEED cipher)
LIBGCRYPT Werner Dittmann 2009-05-20
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 mpi/amd64, tests/mpitests.c

GNUPG David Shaw
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 cipher/camellia-glue.c and related stuff

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
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 cipher/ecc.c and related files

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 Changes to cipher/idea.c and related files

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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>.

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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 taken from the original NTT provided GPL source.

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- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
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Zstd-jni: JNI bindings to Zstd Library

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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
Platforms: Requires ANSI C-compiler.
Copying-policy: BeerWare: If you have the time and money, send me a bottle
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1.661  javax-websocket-server-impl
9.4.26.v20200117
1.661.1 Available under license:

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

-----
Apache

The following artifacts are ASL2 licensed.

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

-----
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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  compiler/cpp/src/generate/t_hs_generator.cc
  compiler/cpp/src/generate/t_java_generator.cc
  compiler/cpp/src/generate/t_ocaml_generator.cc
  compiler/cpp/src/generate/t_perl_generator.cc
  compiler/cpp/src/generate/t_php_generator.cc
  compiler/cpp/src/generate/t_py_generator.cc
  compiler/cpp/src/generate/t_rb_generator.cc
  compiler/cpp/src/generate/t_st_generator.cc
  compiler/cpp/src/generate/t_xsd_generator.cc
  compiler/cpp/src/main.cc
  compiler/cpp/src/parse/t_field.h
  compiler/cpp/src/parse/t_program.h
  compiler/cpp/src/platform.h
  compiler/cpp/src/thrift.ll
  compiler/cpp/src/thrifty.yy
  lib/csharp/src/Protocol/TBinaryProtocol.cs
  lib/csharp/src/Protocol/TField.cs
  lib/csharp/src/Protocol/TLList.cs
  lib/csharp/src/Protocol/TMap.cs
  lib/csharp/src/Protocol/TMessage.cs
  lib/csharp/src/Protocol/TMessageFactory.cs
  lib/csharp/src/Protocol/TProtocol.cs
  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
  lib/csharp/src/Protocol/TType.cs
  lib/csharp/src/Server/TServer.cs
  lib/csharp/src/Server/TSimpleServer.cs
  lib/csharp/src/Server/TThreadPoolServer.cs
  lib/csharp/src/Thrift.csproj
  lib/csharp/src/Thrift.sln
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1.669 ribbon-core 2.3.0

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1.670 python-ipaddress 1.0.17-1

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1.671 rx-netty 0.4.9

1.672 commons-configuration 1.10
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Open Source Used In MSX Managed Device Service Pack 3.9.0 5407


verifyZoneIsNotNooped(ngZone: NgZone): void {
  // `NoopNgZone` is not exposed publicly as it doesn't expect to be used outside of the core Angular code, thus we just have
  // to check if the zone doesn't extend or instanceof `NgZone` if (ngZone instanceof NgZone) {
    return;
  }

  console.warn(CONFIG_MESSAGES[VALIDATION_CODE.ZONE_WARNING]());
}

// @angular/core
import { Injectable, InjectionToken, Type } from '@angular/core';
import { Observable } from 'rxjs';
import { PlainObject, StateClass } from '@ngxs/store/internals';
import { SharedSelectorOptions, Callback } from '@internal/internals';
import { NgxsExecutionStrategy } from '@execution/symbols';
import { DispatchOutsideZoneNgxsExecutionStrategy } from '@execution/dispatch-outside-zone-ngxs-execution-strategy';
import { StateToken } from '@state-token/state-token';
import { NGXS_PLUGINS } from '@ngxs/ngxs-plugins';
import { NGXS_META, NGXS_SELECTOR_META, META_OPTIONS_KEY, SELECTOR_META_KEY, META_KEY } from '@ngxs/store/internals';
import { DispatchOutsideZoneNgxsExecutionStrategy } from './execution/dispatch-outside-zone-ngxs-execution-strategy';

// @ngxs/store
export const ROOT_STATE_TOKEN = new InjectionToken<any>('ROOT_STATE_TOKEN');
export const FEATURE_STATE_TOKEN = new InjectionToken<any>('FEATURE_STATE_TOKEN');
export const NGXS_PLUGINS = new InjectionToken<any>('NGXS_PLUGINS');

export const META_KEY = 'NGXS_META';
export const META_OPTIONS_KEY = 'NGXS_OPTIONS_META';
export const SELECTOR_META_KEY = 'NGXS_SELECTOR_META';

export type NgxsLifeCycle = Partial<NgxsOnChanges> & Partial<NgxsOnInit> & Partial<NgxsAfterBootstrap>;

export type NgxsPluginFn = (state: any, mutation: any, next: NgxsNextPluginFn) => any;

/**
 * The NGXS config settings.
 */
@Injectable()
export class NgxsConfig {
  developmentMode: boolean;
  compatibility: {
    strictContentSecurityPolicy: boolean;
  };
  executionStrategy: Type<NgxsExecutionStrategy>;
  defaultsState: PlainObject = {};
  selectorOptions: SharedSelectorOptions = {
    injectContainerState: true,
    suppressErrors: true
  };

  constructor() {
    this.compatibility = {
      strictContentSecurityPolicy: false
    };
    this.executionStrategy = DispatchOutsideZoneNgxsExecutionStrategy;
  }
}

export type StateOperator<T> = (existing: Readonly<T>) => T;

/**
 * State context provided to the actions in the state.
 */
export interface StateContext<T> {
  getState(): T;
  setState(val: T | StateOperator<T>): T;
  patchState(val: Partial<T>): T;
  dispatch(actions: any | any[]): Observable<void>;
}

export type NgxsNextPluginFn = (state: any, mutation: any) => any;

/**
 * Plugin interface
 */
export interface NgxsPlugin {
  handle(state: any, action: any, next: NgxsNextPluginFn): any;
}

/**
 * Options that can be provided to the store.
 */
export interface StoreOptions<T> {
  name: string | StateToken<T>;
  defaults?: T;
  children?: StateClass[T];
}

Open Source Used In MSX Managed Device Service Pack 3.9.0  5411
Represents a basic change from a previous to a new value for a single state instance. Passed as a value in a NgxsSimpleChanges object to the ngxsOnChanges hook. * On init interface

`constructor(public previousValue: T): void { ... }` * On change interface

`constructor(public previousValue: T): void { ... }` * After bootstrap interface

`constructor(public previousValue: T): void { ... }` Returns the type from an action instance/class.

getActionTypeFromInstance(action: any): string | undefined

getValue(obj: any, prop: string): any

PlainObjectOf, StateClass from '@ngxs/store/internals';

import { Observable } from 'rxjs';

import {
  META_KEY,
  META_OPTIONS_KEY,
  NgxsConfig,
  NgxsSimpleChanges,
} from '../symbols';

import {
  ActionHandlerMetaData,
  StoreOptions,
} from '../actions/symbols';

import { getValue } from '../utils/utils';

// inspired from https://stackoverflow.com/a/43674389
export interface StateClassInternal<T = any, U = any> extends StateClass<T> {
  [META_KEY]?: MetaDataModel;
  [META_OPTIONS_KEY]: StoreOptions<U>;
}

export type StatesAndDefaults = MappedStore[];

export type Callback<T = any, V = any> = (...args: V[]) => T;

export interface RootStateDiff<T> {
  currentAppState: T;
  defaults: any;
  states: MappedStore[];
}

export type NSGXS_EXECUTION_STRATEGY = new InjectionToken<NgxsExecutionStrategy>);

'NGXS_EXECUTION_STRATEGY'();

export const NgxsExecutionStrategy

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

export const

NGXS_EXECUTION_STRATEGY = new InjectionToken<NgxsExecutionStrategy>(

'NGXS_EXECUTION_STRATEGY'
);

export interface StateClassInternal<T = any, U = any> extends StateClass<T> {
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NGXS_EXECUTION_STRATEGY = new InjectionToken<NgxsExecutionStrategy>(

'NGXS_EXECUTION_STRATEGY'
);

export interface StateClassInternal<T = any, U = any> extends StateClass<T> {
  [META_KEY]?: MetaDataModel;
  [META_OPTIONS_KEY]: StoreOptions<U>;
}

export type StatesAndDefaults = MappedStore[];

export type Callback<T = any, V = any> = (...args: V[]) => T;

export interface RootStateDiff<T> {
  currentAppState: T;
  defaults: any;
  states: MappedStore[];
}

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'NGXS_EXECUTION_STRATEGY'();

export const NgxsExecutionStrategy

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Open Source Used In MSX Managed Device Service Pack 3.9.0

```
child.hasOwnProperty(key) && child[key].indexOf(keyToFind) >= 0) {
    const parent = visit(child, key);
    return parent !== null ? `${parent}.${key}` : key;
  }

  return null;
}

for (const key in obj) {
  if (obj.hasOwnProperty(key)) {
    const parent = visit(obj, key);
    newObj[key] = parent ? `${parent}.${key}` : key;
  }
}

return newObj;

/**
 * Given a object graph, it will return the items topologically sorted Example:
 * const graph = {
 *   cart: ['saved'],
 *   saved: ['items'],
 *   items: []
 * };
 *
 * would return:
 *
 * const results = ['items', 'saved', 'cart']
 *
 * @ignore
 */
export function topologicalSort(graph: StateKeyGraph): string[] {
  const sorted: string[] = [];
  const visited: PlainObjectOf<boolean> = {};

  const visit = (name: string, ancestors: string[] = []) => {
    if (!Array.isArray(ancestors)) {
      ancestors = [];
    }

    ancestors.push(name);
    visited[name] = true;

    graph[name].forEach((dep: string) => {
      if (ancestors.indexOf(dep) >= 0) {
        throw new Error(`Circular dependency '${dep}' is required by
        '${name}': ${ancestors.join(' -> ')}`);
      }

      if (visited[dep]) {
        return;
      }

      visit(dep, ancestors.slice(0));
    });

    if (sorted.indexOf(name) < 0) {
      sorted.push(name);
    }
  }; //visit

  Object.keys(graph).forEach(k => visit(k));

  return sorted.reverse();
}

/**
 * Returns if the parameter is a object or not.
 * @ignore
 */
export function isObject(obj: any) {
  return (typeof obj === 'object' && obj !== null) || typeof obj === 'function';
}

export function getStateDiffChanges<T>(
  mappedStore: MappedStore,
  diff: RootStateDiff<T>
): NgxsSimpleChange {
  const previousValue: T = getValue(diff.currentAppState, mappedStore.path);
  const currentValue: T = getValue(diff.newAppState, mappedStore.path);
  return new NgxsSimpleChange(previousValue, currentValue, !mappedStore.isInitialised);
}

/**
 * RxJS operator for selecting out specific actions.
 * This will grab actions that have just been dispatched as well as actions that have
 * completed but not.
 * @ignore
 */
export function ofAction(...allowedTypes: any[]) {
  return ofActionOperator(allowedTypes);
}

/**
 * RxJS operator for selecting out specific actions.
 * This will ONLY grab actions that have just been completed
 * @ignore
 */
export function ofActionCompleted(...allowedTypes: any[]) {
  return ofActionOperator(allowedTypes, allowedStatuses, mapActionResult);
}

/**
 * RxJS operator for selecting out specific actions.
 * This will ONLY grab actions that have just been completed
 * @ignore
 */
export function ofActionErrored(...allowedTypes: any[]) {
  return ofActionOperator(allowedTypes, [ActionStatus.Errored]);
}

function ofActionOperator(allowedTypes: any[], statuses?: ActionStatus[], mapOperator: () => OperatorFunction<ActionContext, T>) {
  return (o: Observable<ActionContext>) => o.pipe(filterStatus(allowedMap, allowedStatusMap), mapOperator());
}
```
const actionType = getActionTypeFromInstance(ctx.action); const typeMatch = allowedTypes[actionType];
const statusMatch = allowedStatuses ? allowedStatuses[ctx.status] : true;
return typeMatch & statusMatch;
}

function mapActionResult(): OperatorFunction<ActionContext, ActionCompletion> {
    return map(({ action, status, error }): ActionCompletion => {
        let result = {};
        if (status === ActionStatus.Successful) {
            result = { successful: true, canceled: false, error: error };
        } else if (status === ActionStatus.Canceled) {
            result = { successful: false, canceled: true, error: error };
        } else if (status === ActionStatus.Errored) {
            result = { successful: false, canceled: false, error: error };
        }
        return result;
    });
}

function mapActionResult(): OperatorFunction<ActionContext, ActionCompletion> {
    return map(({ action, status, error }): ActionCompletion => {
        let result = {};
        if (status === ActionStatus.Successful) {
            result = { successful: true, canceled: false, error: error };
        } else if (status === ActionStatus.Canceled) {
            result = { successful: false, canceled: true, error: error };
        } else if (status === ActionStatus.Errored) {
            result = { successful: false, canceled: false, error: error };
        }
        return result;
    });
}

function mapAction<T = any>(): OperatorFunction<ActionContext, T> {
    return map((ctx: ActionContext) => <T>ctx.action);
}

interface FilterMap {
    [key: string]: boolean;
}

function createAllowedActionTypesMap(types: any[]): FilterMap {
    return types.reduce((filterMap: FilterMap, klass) => {
        filterMap[getActionTypeFromInstance(klass)] = true;
        return filterMap;
    }, {});
}

function createAllowedStatusesMap(statuses: ActionStatus[]): FilterMap {
    return statuses.reduce((filterMap: FilterMap, status) => {
        filterMap[status] = true;
        return filterMap;
    }, {});
}

export function leaveNgxs<T>(ngxsExecutionStrategy: NgxsExecutionStrategy): MonoTypeOperatorFunction<T> {
    return (source: Observable<T>) => {
        return new Observable((sink: Observer<T>) => {
            return source.subscribe({
                next(value) {
                    ngxsExecutionStrategy.leave(() => sink.next(value));
                },
                error(error) {
                    ngxsExecutionStrategy.leave(() => sink.error(error));
                },
                complete() {
                    ngxsExecutionStrategy.leave(() => sink.complete());
                }
            });
        });
    };
}

export class InternalNgxsExecutionStrategy implements NgxsExecutionStrategy {
    constructor(@Inject(NGXS_EXECUTION_STRATEGY) private _executionStrategy: NgxsExecutionStrategy) {}

    enter<T>(func: () => T): T {
        return this._executionStrategy.enter(func);
    }

    leave<T>(func: () => T): T {
        return this._executionStrategy.leave(func);
    }
}

export class InternalActions extends OrderedSubject<ActionContext> {}

export class Actions extends Observable<any> {
    // This has to be `Observable<ActionContext>` in the v4. Because `InternalActions` is a `Subject<ActionContext>`.
    // Leave it as `any` to avoid breaking changes.
    constructor(internalActions$: InternalActions, internalExecutionStrategy: InternalNgxsExecutionStrategy) {
        super(observer => {
            // Do nothing.
        });
    }
}
childSubscription = internalActions.pipe(leaveNgxs(internalExecutionStrategy)).subscribe({
  error: error => observer.error(error),
  complete: () => observer.complete() }));

childSubscription = internalActions$
  .pipe(leaveNgxs(internalExecutionStrategy))
  .subscribe({
    next: ctx => observer.next(ctx),
    error: error => observer.error(error),
    complete: () => observer.complete() });

observers.add(childSubscription);
stateOperations.setState({ ...currentState, ...results.defaults });

```
import { CONFIG_MESSAGES as MESSAGES,VALIDATION_CODE as CODE } from '../configs/messages.config';
import { StateOperator } from '../symbols';

export function simplePatch<T>(val: Partial<T>): StateOperator<T> {
  return (existingState: Readonly<T>) => {
    if (Array.isArray(val)) {
      throw new Error(MESSAGES[CODE.PATCHING_ARRAY]());
    } else if (typeof val !== 'object') {
      throw new Error(MESSAGES[CODE.PATCHING_PRIMITIVE]());
    }

    const newState: any = { ...(existingState as any) };
    for (const key in val) {
      newState[key] = val[key];
    }

    return newState as T;
  }
}[
```
throw new Error(MESSAGES[CODE.STATE_UNIQUE](stateName, state.name, existingState.name));

return stateName;
}

public static getValidStateMeta(state: StateClassInternal): MetaDataModel {
  const meta: MetaDataModel = getStoreMetadata(state);
  if (!meta) {
    throw new Error(MESSAGES[CODE.STATE_DECORATOR]());
  }

  return stateName;
}

public static getValidStateMeta(state: StateClassInternal): MetaDataModel {
  const meta: MetaDataModel = getStoreMetadata(state);
  if (!meta) {
    throw new Error(MESSAGES[CODE.STATE_DECORATOR]());
  }

  return stateName;
}

export class StateFactory {
  private _connected = false;

  constructor(
    private _injector: Injector,
    private _config: NgxsConfig,
    @Optional()
    @SkipSelf()
    private _parentFactory: StateFactory,
    private _actions: InternalActions,
    private _actionResults: InternalDispatchedActionResults,
    private _stateContextFactory: StateContextFactory,
    @Optional()
    @Inject(INITIAL_STATE_TOKEN)
    private _initialState: any
  ) {}

  private _states: MappedStore[] = [];

  public get states(): MappedStore[] {
    return this._parentFactory ? this._parentFactory.states : this._states;
  }

  private _statesByName: StatesByName = {};

  public get statesByName(): StatesByName {
    return this._parentFactory ? this._parentFactory.statesByName : this._statesByName;
  }

  private _statePaths: PlainObjectOf<string> = {};

  private get statePaths(): PlainObjectOf<string> {
    return this._parentFactory ? this._parentFactory.statePaths : this._statePaths;
  }

  public getRuntimeSelectorContext = memoize(() => {
    const stateFactory = this;
    const context: RuntimeSelectorContext = this._parentFactory
      ? this._parentFactory.getRuntimeSelectorContext()
      :
    {
      getStateGetter(key: string) {
        const path = stateFactory.statePaths[key];
        return path ? propGetter(path.split('.'), stateFactory._config) : () => undefined;
      },

      getSelectorOptions(localOptions?: SharedSelectorOptions) {
        const globalSelectorOptions = stateFactory._config.selectorOptions;
        return {
          ...globalSelectorOptions,
          ...(localOptions || {})
        };
      }
    };
    return context;
  });

  private static cloneDefaults(defaults: any): any {
    let value = {};

    if (Array.isArray(defaults)) {
      value = defaults.slice();
    } else if (isObject(defaults)) {
      value = { ...defaults };
    } else if (defaults === undefined) {
      value = {};
    } else {
      value = defaults;
    }

    return value;
  }

  private static checkStatesAreValid(stateClasses: StateClassInternal[]): void {
    stateClasses.forEach(StoreValidators.checkStatesAreValid);
  }

  /**
   * Add a new state to the global state map.
   * @param stateClass The state class to add.
   * @returns An object containing the new state's properties.
   */
  add(stateClasses: StateClassInternal[]): MappedStore[] {
    StateFactory.checkStatesAreValid(stateClasses);
    const { newStates } = this.addToStatesMap(stateClasses);
    if (!newStates.length) return [];

    const stateGraph: StateKeyGraph = buildGraph(newStates);
    const sortedStates: string[] = topologicalSort(stateGraph);
    const paths: PlainObjectOf<string> = findFullParentPath(stateGraph);
    const nameGraph: PlainObjectOf<StateClassInternal> = nameToState(stateClasses);
    const bootstrappedStores: MappedStore[] = [];

    for (const name of sortedStates) {
      const stateClass: StateClassInternal = nameGraph[name];
      const paths = names[name];
      const meta: MetaDataModel = stateClass[META_KEY]!
      this.addRuntimeInfoToMeta(meta, name, path, stateClass, MappedStore = stateClass);
    }

    return stateClasses;
  }

  private addRuntimeInfoToMeta(meta: MetaDataModel, path: string, stateClass: StateClassInternal) {
    meta.isInitialised = false;
    actions: meta.actions;
    instance: this._injector.get(stateClass),
  }
}
### LifecycleStateManager

```typescript
@Injectable()
export class LifecycleStateManager {
  constructor(
    private internalStateOperations: InternalStateOperations,
    private stateContextFactory: StateContextFactory,
    private bootstrapper: NgxsBootstrapper
  ) {}

  ngxsBootstrap<T>(action: T, results: StatesAndDefaults | null) {
    if (isStateClass(action)) {
      this.bootstrapper.bootstrappedStates.push(stateMap); // Add a set of states to the store and return the defaults.
    }

    // ensure our store hasn’t already been added but don’t throw since it could be lazy // loaded from different paths
    if (!this.hasBeenMountedAndBootstrapped(name, path)) {
      this.states.push(stateMap); return this.bootstrappedStates.push(stateMap); return this.bootstrappedStores[name] = stateMap; // Add the bind actions to the handlers
    }

    this.states.push(stateMap);
  }

  /**
   * Add a set of states to the store and return the defaults.
   */
  addAndReturnDefaults(stateClasses: StateClassInternal[]): StatesAndDefaults {
    const classes: StateClassInternal[] = stateClasses || [];
    const mappedStores: MappedStore[] = this.add(classes); // const defaults = mergedStores.update();
    const defaults = mappedStores.reduce((result, mappedStore) => setValue(result, mappedStore.path, mappedStore.defaults), {});
    return { defaults, states: mappedStores };
  }

  /**
   * Bind the actions to the handlers.
   */
  connectActionHandlers() {
    if (this._connected) return;
    this._actions
      .pipe(
        filter((ctx: ActionContext) => ctx.status === ActionStatus.Dispatched),
        mergeMap(({ action }) =>
          this.invokeActions(this._actions, action!).pipe(
            map(() => <ActionContext>{ action, status: ActionStatus.Successful }),
            defaultIfEmpty(<ActionContext>{ action, status: ActionStatus.Canceled })
          )
        )
      )
      .subscribe(ctx => this._actionResults.next(ctx));
    this._connected = true;
  }

  invokeActions(actions$: InternalActions, action: any) {
    const results = [];
    for (const metadata of this.states) {
      const type = getActionTypeFromInstance(action); // for (const meta in actionMeta.fn) {
        const actionMetas = metadata.actions[type];
        if (actionMetas) {
          for (const actionMeta of actionMetas) {
            const stateContext = this._stateContextFactory.createStateContext(metadata);
            try {
              let result = metadata.instance[actionMeta.fn](stateContext, action);
              if (result instanceof Promise) {
                result = from(result);
              }
              if (result instanceof Observable) {
                if (actionMeta.options.cancelUncompleted) {
                  result = result.pipe(this._actions.pipe(ofActionDispatched(action as any)));
                }
              } else {
                result = of({}).pipe(shareReplay());
              }
            } catch (e) {
              results.push(throwError(e));
            }
          }
        }
      }
    }
    return forkJoin(results);
  }

  private addToStatesMap(stateClasses: StateClassInternal[]): { newStates: StateClassInternal[] } {
    const newStates: StateClassInternal[] = [];
    const statesMap: StatesByName = this.statesByName;
    for (const stateClass of stateClasses) {
      const stateName: string = StoreValidators.checkStateNameIsUnique(stateClass, statesMap);
      const unmountedState = !statesMap[stateName];
      if (unmountedState) {
        this.bootstrapper.bootstrappedStores[name] = stateMap; // Add the bind actions to the handlers
      }
      statesMap[name] = stateClass; // const return = haveNewStates(); // We will need to come up with an alternative in v4
      return haveNewStates(); // We will need to come up with an alternative in v4
      private addRuntimeInfoToMeta(meta: MetaDataModel, path: string) {
        void [this.statePaths[meta.name!] = path];
      }
    }
  }

  private hasBeenMountedAndBootstrapped(name: string, path: string): boolean {
    return this.bootstrapper.bootstrappedStores[name] && this.bootstrapper.bootstrappedStores[name].return.bootstrappedStores[name] !== null;
  }

  private statePaths: StatesByName = {};
}
```

### import

```typescript
import { Injectable } from '@angular/core';
import { NgxsBootstrapper, PlainObject } from '@ngxs/store';
import { filter, mergeMap, tap } from 'rxjs/operators';
import { StateContextFactory } from './state-context-factory';
import { InternalStateOperations } from './state-operations';
import { MetaDataModel } from './symbols';
import { LifecycleStateManager } from './lifecycle-manager';
```
void this.internalStateOperations.getRootStateOperations().dispatch(action)

.pipe(this.bootstrapper.appBootstrapped$).filter(appBootstrapped => !appBootstrapped)  
.subscribe(() => this.invokeBootstrap(results!.states));

/**
 * Invoke the init function on the states.
 */
this.invokeInit(mappedStores: MappedStore[]): void {
    for (const mappedStore of mappedStores)
    * Invoke the init function on the states.
    instance.ngxsOnInit(mapperStore);  
    assert.instanceOf(NgxsSimpleChange =
    getStateDiffChanges(mappedStore, {  
        currentAppState,  
        newAppState
    }));
}

/**
 * Invoke the bootstrap function on the states.
 */
this.invokeBootstrap(mappedStores: MappedStore[]): void {
    for (const mappedStore of mappedStores)
    instance.ngxsAfterBootstrap(mapperStore);
}

private
getStateContext(mapperStore: MappedStore): StateContext<any> {
    return this.stateContextFactory.createStateContext(mapperStore);
}

const
SELECTOR_OPTIONS_META_KEY = NGXS_SELECTOR_OPTIONS_META;

export const
selectorOptionsMetaAccessor = {
    getOptions: (target: any): SharedSelectorOptions => {
        return (target && (<any>target)[SELECTOR_OPTIONS_META_KEY]) || {};
    },
    defineOptions: (target: any, options: SharedSelectorOptions) => {
        if (!target) return;
        (<any>target)[SELECTOR_OPTIONS_META_KEY] = options;
    }
};

interface CreationMetadata {
    containerClass: any;
    selectorName: string;
    getSelectorOptions?: () => SharedSelectorOptions;
}

interface RuntimeSelectorInfo {
    selectorOptions: SharedSelectorOptions;
    argumentSelectorFunctions: SelectFromRootState<
}

/**
 * Function for creating a selector
 * @param selectors The selectors to use to create the arguments of this function
 * @param originalFn The original function being made into a selector
 * @param creationMetadata
 */
export function createSelector<T extends (...args: any[]) => any>(
    selectors: any[] | undefined,
    originalFn: T,
    creationMetadata?: CreationMetadata
) {
    const containerClass = creationMetadata &&
    creationMetadata.containerClass;
    const wrappedFn = function wrappedSelectorFn(...args: any[]) {
        const returnValue = originalFn.apply(containerClass, args);
        if (returnValue instanceof Function) {
            const innerMemoizedFn = memoize.apply(null, [returnValue]);
            return innerMemoizedFn(...args);
        }
        return returnValue;
    } as T;
    const memoizedFn = memoize(wrappedFn);
    Object.setPrototypeOf(memoizedFn, originalFn);

    const selectorMetaData = setupSelectorMetadata<T>(originalFn, creationMetadata);

    const makeRootSelector: SelectorFactory = (context: RuntimeSelectorContext) => {
        const { argumentSelectorFunctions, selectorOptions } = getRuntimeSelectorInfo(
            context,
            selectorMetaData,
            selectors
        );
        return function selectFromRoot(rootState: any) {
            // Determine arguments from the app state using the selectors
            const results = argumentSelectorFunctions.map(argFn => argFn(rootState));
            // if the lambda tries to access a something on the state that doesn't exist, it will throw a TypeError
            // since this is quite usual behaviour, we simply return undefined if so
            try {
                return memoizedFn(...results);
            } catch (ex) {
                if (ex instanceof TypeError && selectorOptions.suppressErrors) {
                    return undefined;
                }
                throw ex;
            }
        };
    };
    selectorMetaData.makeRootSelector = makeRootSelector;
    memoizedFn;

    return
}

function setupSelectorMetadata<T extends (...args: any[]) => any>(
    originalFn: T,
    creationMetadata: CreationMetadata | undefined
) {
    const selectorMetaData = ensureSelectorMetadata(originalFn);
    selectorMetaData.originalFn = originalFn;
s

getExplicitSelectorOptions = () => ({});
        if (creationMetadata) {
          selectorMetaData.containerClass = creationMetadata.containerClass;
          selectorMetaData.selectorName = creationMetadata.selectorName;
          getExplicitSelectorOptions = () => ({});
          if (creationMetadata) {
            selectorMetaData.containerClass = creationMetadata.containerClass;
            selectorMetaData.selectorName = creationMetadata.selectorName;
          }
        }
        const selectorMetaDataClone = { ...selectorMetaData };
        selectorMetaData.getSelectorOptions = () => getLocalSelectorOptions(selectorMetaDataClone, getExplicitSelectorOptions());
        return selectorMetaData;
      }
      function getRuntimeSelectorInfo({ context: RuntimeSelectorContext, selectorMetaData: SelectorMetaDataModel, selectors: any[] | undefined = [] }): RuntimeSelectorInfo {
        const localSelectorOptions = selectorMetaData.getSelectorOptions();
        const selectorOptions = context.getSelectorOptions(localSelectorOptions);
        const selectorsToApply = getSelectorsToApply(selectors, selectorOptions, selectorMetaData.containerClass);
        const argumentSelectorFunctions = selectorsToApply.map(selector => {
          const factory = getRootSelectorFactory(selector);
          return factory(context);
        });
        return {
          selectorOptions,
          argumentSelectorFunctions
        };
      }
      function getLocalSelectorOptions(selectorMetaData: SelectorMetaDataModel, explicitOptions: SharedSelectorOptions): SharedSelectorOptions {
        return {
          ...(selectorOptionsMetaAccessor.getOptions(selectorMetaData.containerClass) || {}),
          ...(selectorOptionsMetaAccessor.getOptions(selectorMetaData.originalFn) || {}),
          ...(selectorMetaData.getSelectorOptions() || {}),
          ...explicitOptions
        };
      }
      function getSelectorsToApply(selectors: any[] | undefined = [], selectorOptions: SharedSelectorOptions, containerClass: any): any[] {
        if (selectors.length === 0) {
          return injectContainerState = !selectorOptions.injectContainerState && containerClass;
          const metadata = getStoreMetadata(containerClass);
          if (metadata) {
            selectorsToApply.push(containerClass);
          }
          if (selectors) {
            selectorsToApply.push(...selectors);
          }
        }
        return selectorsToApply;
      }
      function getRootSelectorFactory(selector: any): SelectorFactory {
        const metadata = getSelectorMetadata(selector) || getStoreMetadata(selector);
        return (metadata && metadata.makeRootSelector) || (() => selector);
      }
    }
  };
  constructor(
    private _stateStream: StateStream,
    private _internalStateOperations: InternalStateOperations,
    private _config: NgxsConfig,
    private _internalExecutionStrategy: InternalNgxsExecutionStrategy,
    private _stateFactory: StateFactory,
    @Optional()
    @Inject(INITIAL_STATE_TOKEN)
    @Inject(INTERNAL_STATE_TOKEN)
    @Optional()
    @Inject(INTERNAL_STATE_TOKEN)
    @Optional()
    @Inject(INTERNAL_STATE_TOKEN)
    @Optional()
    @Inject(INTERNAL_STATE_TOKEN)
    @Optional()
    @Inject(INITIAL_STATE_TOKEN)
    @Optional()
distinctUntilChanged(), leaveNgxs(this._internalExecutionStrategy));

selectOnce<T>(selector: (state: any, ...states: any[]) => T): Observable<T> {
  return this.select(selector).pipe(take(1));
}

selectOnce<T>(selector: StateToken<T>): Observable<T> {
  return this.select(selector).pipe(take(1));
}

selectSnapshot<T>(selector: (state: any, ...states: any[]) => T): T;
selectSnapshot<T = any>(selector: string | Type<any>): T;
selectSnapshot<T>(selector: StateToken<T>): T;
selectSnapshot(selector: any): any {
  const selectorFn = this.getStoreBoundSelectorFn(selector);
  return selectorFn(this._stateStream.getValue());
}

reset(state: any) {
    return this._internalStateOperations.getRootStateOperations().setState(state);
}

getStoreBoundSelectorFn(selector: any) {
    const makeSelectorFn = getRootSelectorFactory(selector);
    const runtimeContext = this._stateFactory.getRuntimeSelectorContext();
    return makeSelectorFn(runtimeContext);
}

initStateStream(initialStateValue: any): void {
    const value: PlainObject = this._stateStream.value;
    const storeIsEmpty: boolean = !value || Object.keys(value).length === 0;
    if (storeIsEmpty) {
      const defaultStateNotEmpty: boolean = Object.keys(this._config.defaultsState).length > 0;
      const storeValues: PlainObject = defaultStateNotEmpty
        ? { ...this._config.defaultsState, ...initialStateValue }
        : initialStateValue;
      this._stateStream.next(storeValues);
    }
}

private

@Injectable()
export class SelectFactory {
  public static store: Store | null = null;
  public static config: NgxsConfig | null = null;

  constructor(store: Store, config: NgxsConfig) {
    SelectFactory.store = store;
    SelectFactory.config = config;
  }
}

export class InitState {
  static get type() {
    // NOTE: Not necessary to declare the type in this way in your code. See https://github.com/ngxs/store/pull/644#issuecomment-436003138
    return '@@INIT';
  }
}

export class UpdateState {
  static get type() {
    // NOTE: Not necessary to declare the type in this way in your code. See https://github.com/ngxs/store/pull/644#issuecomment-436003138
    return '@@UPDATE_STATE';
  }

  constructor(public addedStates?: PlainObject) {}
}

export function setIvyEnabledInDevMode(): void {
  try {
    const ng = (window as any).ng;
    const _viewEngineEnabled = !!ng.probe && !!ng.coreTokens;
    const _ivyEnabledInDevMode = !_viewEngineEnabled && isDevMode();
    _ivyEnabledInDevMode$.next(_ivyEnabledInDevMode);
  } catch {
    _ivyEnabledInDevMode$.next(false);
  } finally {
    _ivyEnabledInDevMode$.complete();
  }
}

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export function ivyEnabledInDevMode(): Observable<boolean> {
  return
  _ivyEnabledInDevMode$.asObservable();
}

import { Injectable, NgModule, Optional } from '@angular/core';

import { StateFactory } from '../internal/state-factory';
import { InternalStateOperations } from '../internal/state-operations';
import { Store } from '../store';
import { SelectFactory } from '../decorators/select/select-factory';
import { ROOT_STATE_TOKEN } from '../symbols';
import { LifecycleStateManager } from '../internal/lifecycle-state-manager';
import { InitState } from '../actions/actions';
import { setIvyEnabledInDevMode } from '../ivy/ivy-enabled-in-dev-mode';

/**
 * Root module
 * @ignore
 */
@NgModule()
export class NgxsRootModule {
  constructor(
    factory: StateFactory,
    internalStateOperations: InternalStateOperations,
    _store: Store,
    _select: SelectFactory,
    @Optional()
    @Inject(ROOT_STATE_TOKEN)
    states: StateClassInternal[] = [],
    lifecycleStateManager: LifecycleStateManager
  ) {
    // Validate states on having the `@Injectable()` decorator in Ivy
    setIvyEnabledInDevMode();

    // Add stores to the state graph and return their defaults
    const results: StatesAndDefaults = factory.addAndReturnDefaults(states);
    internalStateOperations.setStateToTheCurrentWithNew(results);

    // Connect our actions stream
    factory.connectActionHandlers();
    // Dispatch the init action and invoke init and bootstrap functions after
    lifecycleStateManager.ngxsBootstrap(new InitState(), results);
  }
}

/**
 * Feature module
 * @ignore
 */
@NgModule()
export class NgxsFeatureModule {
  constructor(
    _store: Store,
    internalStateOperations: InternalStateOperations,
    factory: StateFactory,
    @Optional()
    @Inject(FEATURE_STATE_TOKEN)
    states: StateClassInternal[] = [],
    lifecycleStateManager: LifecycleStateManager
  ) {
    // Since FEATURE_STATE_TOKEN is a multi token, we need to flatten it
    const flattenedStates: StateClassInternal[] = NgxsFeatureModule.flattenStates(states);
    internalStateOperations.setStateToTheCurrentWithNew(flattenedStates);

    // dispatch the update action and invoke init and bootstrap functions after
    lifecycleStateManager.ngxsBootstrap(new UpdateState(flattenedStates.stateClassInternal), flattenedStates);
  }

  private static flattenStates(states: StateClassInternal[] = []): StateClassInternal[] {
    return states.reduce((total: StateClassInternal[], values: StateClassInternal[]) => total.concat(values), []);
  }
}

import {
  APP_BOOTSTRAP_LISTENER,
  InjectionToken,
  isDevMode,
  ModuleWithProviders,
  NgModule,
  Provider
} from '@angular/core';
import {
  INITIAL_STATE_TOKEN,
  InitialState,
  isAngularInTestMode,
  NGXS_STATE_CONTEXT_FACTORY,
  NGXS_STATE_FACTORY,
} from '@ngxs/store';
import { NgxsBootstrapper, StateClass } from '@ngxs/store/initials';
import { NG_DEV_MODE, NG_TEST_MODE } from 'ngxs/config';
import { NgxsModuleOptions, ROOT_STATE_TOKEN } from 'symbols';
import { NGXS_EXECUTION_STRATEGY } from 'execution/symbols';
import { StateFactory } from 'internal/state-factory';
import { Actions, InternalActions } from 'actions-stream';
import { LifecycleStateManager } from 'internal/lifecycle-state-manager';
import { LifecycleDispatcher } from 'internal/dispatcher';
import { InternalStateOperations } from 'internal/state-operations';
import { Store } from 'store';
import { SelectFactory } from 'decorators/select/select-factory';
import { StateStream } from 'internal/state-stream';
import { PluginManager } from 'plugin-manager';
import { NgxsRootModule } from 'modules/ngxs-root.module';
import { NgxsFeatureModule } from 'modules/ngxs-feature.module';
`@Injectable()` // decorator has to go after the `@State()` decorator, thus we prevent users from unwanted DI errors.

```
ivyEnabledInDevMode().subscribe(_ivyEnabledInDevMode => {
  const ngInjectableDef = target.ɵprov;
  if (!ngInjectableDef) {
    // Don't warn if Ivy is disabled or 'ɵprov' exists on the class
    console.warn(CONFIG_MESSAGES[VALIDATION_CODE.UNDECORATED_STATE_IN_IVY](target.name));
  }
});
```

```
import { StateClass } from '@ngxs/store/internals';

import { ensureStoreMetadata, MetaDataModel, StateClassInternal } from '../internal/internals';
import { META_KEY, META_OPTIONS_KEY, StoreOptions } from '../symbols';
import { StoreValidators } from '../utils/store-validators';

interface MutateMetaOptions<T> {
  meta: MetaDataModel;
  inheritedStateClass: StateClassInternal;
  optionsWithInheritance: StoreOptions<T>;
}

/**
 * Decorates a class with ngxs state information.
 */
export function State<T>(options: StoreOptions<T>) {

  function getStateOptions(inheritedStateClass: StateClassInternal): StoreOptions<T> {
    const inheritanceOptions: Partial<StoreOptions<T>> = inheritedStateClass[META_OPTIONS_KEY] || {};
    return { ...inheritanceOptions, ...options } as StoreOptions<T>;
  }

  function mutateMetaData(params: MutateMetaOptions<T>) {
    const { meta, inheritedStateClass, optionsWithInheritance } = params;
    const { children, defaults, name } = optionsWithInheritance;
    const stateName: string | null = typeof name === 'string' ? name : (name && name.getName()) || null;
    StoreValidators.checkCorrectStateName(stateName);

    if (inheritedStateClass.hasOwnProperty(META_KEY)) {
      const inheritedMeta: Partial<MetaDataModel> = inheritedStateClass[META_KEY] || {};
      meta.actions = { ...meta.actions, ...inheritedMeta.actions };
    }

    meta.children = children;
    meta.defaults = defaults;
    meta.name = stateName;
  }

  return (target: StateClass): void => {
    ensureStateClassIsInjectable(target);
    const stateClass: StateClassInternal = target;
    const meta: MetaDataModel = ensureStoreMetadata(stateClass);
    const inheritedStateClass: StateClassInternal = Object.getPrototypeOf(stateClass);
    const optionsWithInheritance: StoreOptions<T> = getStateOptions(inheritedStateClass);
    mutateMetaData({ meta, inheritedStateClass, optionsWithInheritance });
    stateClass[META_OPTIONS_KEY] = optionsWithInheritance;
  };
}
```

```
import { Observable } from 'rxjs';

import { CONFIG_MESSAGES, VALIDATION_CODE } from '../../configs/messages.config';
import { propGetter } from '../../internal/internals';
import { SelectFactory } from './select-factory';
import { StateToken } from '../../state-token/state-token';
import { ExtractTokenType } from '../../state-token/symbols';

const DOLLAR_CHAR_CODE = 36;

export function createSelectObservable<T = any>(selector: any): Observable<T> {
  if (!SelectFactory.store) {
    throw new Error(CONFIG_MESSAGES[VALIDATION_CODE.SELECT_FACTORY_NOT_CONNECTED]());
  }

  return SelectFactory.store.select(selector);
}

export function createSelectorFn(name: string, rawSelector?: any, paths: string[] = []) {
  rawSelector = !rawSelector ? removeDollarAtTheEnd(name) : rawSelector;

  if (typeof rawSelector === 'string') {
    const propsArray: string[] = paths.length ? [rawSelector, ...paths] : rawSelector.split('');
    return propGetter(propsArray, SelectFactory.config!);
  }

  return rawSelector;
}

/**
 * @example If `foo$` => make it just `foo`
 */
export function removeDollarAtTheEnd(name: string): string {
  const lastCharIndex: number = name.length - 1;
  const dollarAtTheEnd: boolean = name.charCodeAt(lastCharIndex) === DOLLAR_CHAR_CODE;
  return dollarAtTheEnd ? name.slice(0, lastCharIndex) : name;
}

export type PropertyType<T> = T extends StateToken<any> ? Observable<ExtractTokenType<T>> : T extends (props: any) => any ? Observable<ReturnType<T>> : T extends ComponentClass<any> ? Observable<T[P in keyof T]> : T extends ComponentClass<any> & Record<K, PropertyType<T>> ? Observable<K extends string ? ComponentClass<any> & Record<K, PropertyType<T>> : T extends ComponentClass<any> & Record<K, PropertyType<T>> ? ComponentClass<any> & Record<K, PropertyType<T>> : T extends ComponentClass<any> & Record<K, PropertyType<T>> ? ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : T extends ComponentClass<any> & Record<K, PropertyType<T>> ? ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> : ComponentClass<any> & Record<K, PropertyType<T>> ;
const name: string = key.toString();
const selectorId = `__${name}__selector`;
const selector = createSelectorFn(name, rawSelector, paths);
Object.defineProperties(target, {
  [selectorId]: {
    writable: true,
    enumerable: false,
    configurable: true
  },
  [name]: {
    enumerable: true,
    configurable: true,
    get(): PropertyType<T> {
      return this[selectorId] || (this[selectorId] = createSelectObservable(selector));
    }
  }
});

Object.defineProperties(target, {
  [selectorId]: {
    writable: true,
    enumerable: false,
    configurable: true
  },
  [name]: {
    enumerable: true,
    configurable: true,
    get(): PropertyType<T> {
      return this[selectorId] || (this[selectorId] = createSelectObservable(selector));
    }
  }
});

import { SharedSelectorOptions } from '../internal/internals';
import { selectorOptionsMetaAccessor } from '../utils/selector-utils';

/**
 * Decorator for setting selector options at a method or class level.
 */
export function SelectorOptions(options: SharedSelectorOptions) {
  return <ClassDecorator & MethodDecorator>(
    function decorate<T>(target: any, methodName: string, descriptor: TypedPropertyDescriptor<T>) {
      if (methodName) {
        // Method Decorator
        const originalFn = descriptor.value || (<any>descriptor).originalFn;
        if (originalFn) {
          selectorOptionsMetaAccessor.defineOptions(originalFn, options);
        }
      } else {
        // Class Decorator
        selectorOptionsMetaAccessor.defineOptions(target, options);
      }
    }
  );
}

import {
  getSelectorMetadata as getSelectorMetadataInternal,
  getStoreMetadata as getStoreMetadataInternal,
  ensureStoreMetadata as ensureStoreMetadataInternal,
  ensureSelectorMetadata as ensureSelectorMetadataInternal,
  StateClassInternal,
  SharedSelectorOptions
} from './internal/internals';
import { PlainObjectOf } from '../internals/src/symbols';
import { ActionHandlerMetaData } from './actions/symbols';

interface MetaDataModel {
  name: string | null;
  actions: PlainObjectOf<ActionHandlerMetaData>;
  defaults: any;
  path: string | null;
  // selectFromAppState: SelectFromState | null;
  // makeRootSelector: SelectorFactory | null; // Don't expose new stuff
  children?: StateClassInternal[];
}

interface SelectorMetaDataModel {
  // selectFromAppState: SelectFromState | null;
  // makeRootSelector: SelectorFactory | null; // Don't expose new stuff
  originalFn: Function | null;
  containerClass: any;
  selectorName: string | null;
  getSelectorOptions: () => SharedSelectorOptions;
}

export function ensureStoreMetadata(target: StateClassInternal<any, any>): MetaDataModel {
  return ensureStoreMetadataInternal(target);
}

export function getStoreMetadata(target: StateClassInternal<any, any>): MetaDataModel {
  return getStoreMetadataInternal(target);
}

export function ensureSelectorMetadata(target: Function): SelectorMetaDataModel {
  return ensureSelectorMetadataInternal(target);
}

export function getSelectorMetadata(target: any): SelectorMetaDataModel {
  return getSelectorMetadataInternal(target);
}

import { CONFIG_MESSAGES, VALIDATION_CODE } from '../../configs/messages.config';
import { createSelector } from '../../utils/selector-utils';
import { SelectorSpec, SelectorType } from './symbols';

/**
 * Decorator for memoizing a state selector.
 */
export function Selector<T>(selectors?: T[]) {
  return <U>(
    target: any,
    key: string | symbol,
    descriptor: TypedPropertyDescriptor<SelectorSpec<T, U>>
  ) => {
    const isNotMethod = !(descriptor && descriptor.value !== null);

    if (isNotMethod) {
      throw new Error(CONFIG_MESSAGES[VALIDATION_CODE.SELECTOR_DECORATOR]());
    }

    const originalFn = descriptor.value;
    const memoizedFn = createSelector(selectors, originalFn as any, {
      containerClass: target,
      selectorName: key.toString(),
      getSelectorOptions: () => getSelectorMetadata(target)
    });
    const newDescriptor = {
      configurable: true,
      get() {
        return memoizedFn;
      }
    };
    // Add hidden property to descriptor
    (<any>newDescriptor)['originalFn'] = originalFn;
    return newDescriptor;
  };
}

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

import {
  ensureSelectorMetadata,
  RuntimeSelectorContext,
  SelectFromRootState
} from '../internal/internals';

export class StateToken<T = void> {
  constructor(private readonly name: TokenName<T>) {
    const selectorMetadata = ensureSelectorMetadata(<any>this);
    const newDescriptor = selectorMetadata.value;
    const memoizedFn = createSelectObservable(selectorMetadata.originalFn);
    const newDescriptor = {
      configurable: true,
      get() {
        return memoizedFn;
      }
    };
    // Add hidden property to descriptor
    (<any>newDescriptor)['originalFn'] = originalFn;
    return newDescriptor;
  }
}

export class NoopNgxsExecutionStrategy implements NgxsExecutionStrategy {
  enter<T>(func: () => T): T {
    return func();
  }

  leave<T>(func: () => T): T {
    return func();
  }
}

export class StateToken<T = void> {
  constructor(private readonly name: TokenName<T>) {
    const selectorMetadata = ensureSelectorMetadata(<any>this);
    const newDescriptor = selectorMetadata.value;
    const memoizedFn = createSelectObservable(selectorMetadata.originalFn);
    const newDescriptor = {
      configurable: true,
      get() {
        return memoizedFn;
      }
    };
    // Add hidden property to descriptor
    (<any>newDescriptor)['originalFn'] = originalFn;
    return newDescriptor;
  }
}

export class NoopNgxsExecutionStrategy implements NgxsExecutionStrategy {
  enter<T>(func: () => T): T {
    return func();
  }

  leave<T>(func: () => T): T {
    return func();
  }
}
SelectFromRootState => {
  return runtimeContext.getStateGetter(this.name);
}

getName(): string {
  return this.name;
}

toString(): string {
  return `StateToken[${this.name}]`;
}
sBAAsB,oBAAM,IAAI,GAAC;YAC1D,gBAAgB,CAAC,gBAAgB;;;;YAAG,UAClC,cAAsC;gBAEtC,OAAO,cA
Ac,CAAC,cAAc,CAAC,KAAI,CAAC,IAAI,CAAC,CAAC;aACjD,CAAA,CAAC;SACH;;;;QAED,4BAAO;;;QAA
P;YACE,OAAO,IAAI,CAAC,IAAI,CAAC;SAClB;;;;QAED,6BAAQ;;;QAAR;YACE,OAAO,gBAAc,IAAI,CAAC
,IAAI,MAAG,CAAC;SACnC;QACH,iBAAC;KAAA,IAAA;;;;;;QAhBa,0BAAmC;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;"}
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047757866_1593218827.24/0/store-3-6-2-tgz/package/bundles/ngxsstore.umd.js.map
No license file was found, but licenses were detected in source scan.
ngxs/store/operators/compose.ts","ng://@ngxs/store/operators/utils.ts","ng://@ngxs/store/operators/iif.ts","ng://@ng
xs/store/operators/insert-item.ts","ng://@ngxs/store/operators/patch.ts","ng://@ngxs/store/operators/updateitem.ts","ng://@ngxs/store/operators/remove-item.ts"],"sourcesContent":["/*!
*****************************************************************************\r\nCopyright (c)
Microsoft Corporation. All rights reserved.\r\nLicensed under the Apache License, Version 2.0 (the \"License\");
you may not use\r\nthis file except in compliance with the License. You may obtain a copy of the\r\nLicense at
http://www.apache.org/licenses/LICENSE-2.0\r\n\r\nTHIS CODE IS PROVIDED ON AN *AS IS* BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY\r\nKIND, EITHER EXPRESS OR IMPLIED,
INCLUDING WITHOUT LIMITATION ANY IMPLIED\r\nWARRANTIES OR CONDITIONS OF TITLE,
FITNESS FOR A PARTICULAR PURPOSE,\r\nMERCHANTABLITY OR NON-INFRINGEMENT.\r\n\r\nSee
the Apache Version 2.0 License for specific language governing permissions\r\nand limitations under the
License.\r\n***************************************************************************** */\r\n/*
global Reflect, Promise */\r\n\r\nvar extendStatics = function(d, b) {\r\n extendStatics = Object.setPrototypeOf
||\r\n
({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||\r\n
function (d, b) { for
(var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };\r\n return extendStatics(d, b);\r\n};\r\n\r\nexport function
__extends(d, b) {\r\n extendStatics(d, b);\r\n function __() { this.constructor = d; }\r\n d.prototype = b === null
? Object.create(b) : (__.prototype = b.prototype, new __());\r\n}\r\n\r\nexport var __assign = function() {\r\n
__assign = Object.assign || function __assign(t) {\r\n
for (var s, i = 1, n = arguments.length; i < n; i++) {\r\n
s = arguments[i];\r\n
for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];\r\n
}\r\n
return t;\r\n }\r\n return __assign.apply(this, arguments);\r\n}\r\n\r\nexport function __rest(s, e) {\r\n var t
= {};\r\n for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0)\r\n
t[p] =
s[p];\r\n if (s != null && typeof Object.getOwnPropertySymbols === \"function\")\r\n
for (var i = 0, p =
Object.getOwnPropertySymbols(s); i < p.length; i++) {\r\n
if (e.indexOf(p[i]) < 0 &&
Object.prototype.propertyIsEnumerable.call(s, p[i]))\r\n
t[p[i]] = s[p[i]];\r\n
}\r\n return
t;\r\n}\r\n\r\nexport function __decorate(decorators, target, key, desc) {\r\n var c = arguments.length, r = c < 3 ?
target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;\r\n if (typeof Reflect ===
\"object\" && typeof Reflect.decorate === \"function\") r = Reflect.decorate(decorators, target, key, desc);\r\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)) || r;\r\n return c > 3 && r && Object.defineProperty(target, key, r), r;\r\n}\r\n\r\nexport function
__param(paramIndex, decorator) {\r\n return function (target, key) { decorator(target, key, paramIndex);
}\r\n}\r\n\r\nexport function __metadata(metadataKey, metadataValue) {\r\n if (typeof Reflect === \"object\" &&
typeof Reflect.metadata === \"function\") return Reflect.metadata(metadataKey, metadataValue);\r\n}\r\n\r\nexport
function __awaiter(thisArg, _arguments, P, generator) {\r\n return new (P || (P = Promise))(function (resolve,
reject) {\r\n
function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }\r\n
function rejected(value) { try { step(generator[\"throw\"](value)); } catch (e) { reject(e); } }\r\n
function

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```typescript
const clone = existing.slice(); let index = 0; // No need to call 'isNumber' as we are checking '> 0' not '>= 0' // everything except number will return false here if (beforePosition! > 0) {
    index = beforePosition!;
} else {
    clone.splice(index, 0, value as RepairType<T>);
}

const newPropValue = isStateOperator(newValue) ? newValue : newPropValue;
if (newPropValue !== existing[property]) {
    if (!clone) {
        clone = { ...<any>existing };
    }
    clone[property] = newPropValue as RepairType<T>;
}
```

```typescript
import { StateOperator } from '@ngxs/store';
import { isStateOperator } from './utils';

export type PatchSpec<T> = {
    [P in keyof T]?: T[P] | StateOperator<NonNullable<T[P]>>
};

type PatchValues<T> = {
    readonly [P in keyof T]?: T[P] extends (...args: any[]) => infer R ? R : T[P];
};

type PatchOperator<T> = <U extends PatchValues<T>>(existing: Readonly<U>) => U;

export function patch<T>(patchObject: PatchSpec<T>): PatchOperator<T> {
    return function patchStateOperator<U extends PatchValues<T>>(existing: Readonly<U>): U {
        let index = -1;
        if (isPredicate(selector)) {
            index = existing.findIndex(selector);
        } else if (isNumber(selector)) {
            index = selector;
        }
        if (invalidIndex(index)) {
            return existing as RepairType<T>[
        ];
        } else {
            value = operatorOrValue;
        }
        if (value === existing[property]) {
            return existing as RepairType<T>[
        ];
        } else {
            clone = existing.slice();
            clone[index] = value as RepairType<T>;
            return clone;
        }
    };
}
```

```typescript
import { StateOperator } from '@ngxs/store';

import { isStateOperator, isPredicate, isNumber, invalidIndex, RepairType } from './utils';
import { Predicate } from './internals';

/**
 * @param selector - index or predicate to remove an item from an array by
 */
export function removeItem<T>(
    selector: number | Predicate<T>
): StateOperator<RepairType<T>[
        ]> {
    return function removeItemOperator(existing: Readonly<RepairType<T>[
        ]>) {
        let index = -1;
        if (isPredicate(selector)) {
            index = existing.findIndex(selector);
        } else if (isNumber(selector)) {
            index = selector;
        }
        if (invalidIndex(index)) {
            return existing as RepairType<T>[
        ];
        } else {
            const clone = existing.slice();
            clone.splice(index, 1);
            return clone;
        }
    };
}
```

```typescript
import { StateOperator } from '@ngxs/store';
import { Predicate } from './internals';
import { isPredicate, isNumber, invalidIndex, RepairType } from './utils';

/**
 * @param selector - Index of item in the array or a predicate function that can be provided in `Array.prototype.findIndex`
 */
export function updateItem<T>(selector: number | Predicate<T>, operatorOrValue: StateOperator<T> | T): StateOperator<RepairType<T>[
        ]> {
    return function updateItemOperator(existing: Readonly<RepairType<T>[
        ]>) {
        let index = -1;
        if (isPredicate(selector)) {
            index = existing.findIndex(selector);
        } else if (isNumber(selector)) {
            index = selector;
        }
        if (invalidIndex(index)) {
            return existing as RepairType<T>[
        ];
        } else {
            value = operatorOrValue;
        }
        if (value === existing[property]) {
            return existing as RepairType<T>[
        ];
        } else {
            const clone = existing.slice();
            clone[index] = value as RepairType<T>;
            return clone;
        }
    };
}
```

```typescript
import { StateOperator } from '@ngxs/store';

import { isStateOperator } from '@ngxs/store';
import { isPredicate, isNumber, invalidIndex, RepairType } from './utils';
import { Predicate } from './internals';

/**
 * @param selector - index or predicate to remove an item from an array by
 */
export function removeItem<T>(selector: number | Predicate<T>): StateOperator<RepairType<T>[
        ]> {
    return function removeItemOperator(existing: Readonly<RepairType<T>[
        ]>) {
        let index = -1;
        if (isPredicate(selector)) {
            index = existing.findIndex(selector);
        } else if (isNumber(selector)) {
            index = selector;
        }
        if (invalidIndex(index)) {
            return existing as RepairType<T>[
        ];
        } else {
            const clone = existing.slice();
            clone.splice(index, 1);
            return clone;
        }
    };
}
```

```typescript
import { StateOperator } from '@ngxs/store';

import { isStateOperator } from '@ngxs/store';
import { isPredicate, isNumber, invalidIndex, RepairType } from './utils';
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    return function removeItemOperator(existing: Readonly<RepairType<T>[
        ]>) {
        let index = -1;
        if (isPredicate(selector)) {
            index = existing.findIndex(selector);
        } else if (isNumber(selector)) {
            index = selector;
        }
        if (invalidIndex(index)) {
            return existing as RepairType<T>[
        ];
        } else {
            const clone = existing.slice();
            clone.splice(index, 1);
            return clone;
        }
    };
}
```

```typescript
import { StateOperator } from '@ngxs/store';

import { isStateOperator } from '@ngxs/store';
import { isPredicate, isNumber, invalidIndex, RepairType } from './utils';
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        ]> {
    return function removeItemOperator(existing: Readonly<RepairType<T>[
        ]>) {
        let index = -1;
        if (isPredicate(selector)) {
            index = existing.findIndex(selector);
        } else if (isNumber(selector)) {
            index = selector;
        }
        if (invalidIndex(index)) {
            return existing as RepairType<T>[
        ];
        } else {
            const clone = existing.slice();
            clone.splice(index, 1);
            return clone;
        }
    };
}
```

```typescript
import { StateOperator } from '@ngxs/store';

import { isStateOperator } from '@ngxs/store';
import { isPredicate, isNumber, invalidIndex, RepairType } from './utils';
import { Predicate } from './internals';

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 * @param selector - index or predicate to remove an item from an array by
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export function removeItem<T>(selector: number | Predicate<T>): StateOperator<RepairType<T>[
        ]> {
    return function removeItemOperator(existing: Readonly<RepairType<T>[
        ]>) {
        let index = -1;
        if (isPredicate(selector)) {
            index = existing.findIndex(selector);
        } else if (isNumber(selector)) {
            index = selector;
        }
        if (invalidIndex(index)) {
            return existing as RepairType<T>[
        ];
        } else {
            const clone = existing.slice();
            clone.splice(index, 1);
            return clone;
        }
    };
}
```
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047757866_1593218827.24/0/store-3-6-2-tgz/package/bundles/ngsstore-operateurs.umd.js.map

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global Reflect, Promise */

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);
};

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 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)) || r;
    return c > 3 && r && Object.defineProperty(target, key, r), r;
}

export function __param(paramIndex, decorator) {
    return function (target, key) { decorator(target, key, paramIndex); }
}

export function __metadata(metadataKey, metadataValue) {
    if (typeof Reflect === "object" && typeof Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue);
}

export 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(step(result)); }).then(fulfilled, rejected); }
        step((generator = generator.apply(thisArg, _arguments || [])).next());
    });
}
```javascript
(Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];
result.default = mod;
return result;
}

export function _importDefault(mod) {
  return (mod && mod.__esModule) ? mod:
    module.exports
}

function isStateOperator<T>(value: T | StateOperator<T>): value is StateOperator<T>
{
  return typeof value === 'function';
}

export function isPredicate<T>(value: Predicate<T> | boolean | number): value is Predicate<T>
{
  return value instanceof Predicate;
}

export function isUndefined(value: any): value is undefined
{
  return typeof value === 'undefined';
}

export function isPredicate<T>(value: Predicate<T> | boolean | number): value is Predicate<T>
{
  return typeof value === 'function';
}

export function isNumber(value: any): value is number
{
  return typeof value === 'number';
}

export function invalidIndex(index: number): boolean
{
  return Number.isNaN(index) || index === -1;
}

export function isNil<T>(value: T | null | undefined): value is null | undefined
{
  return value === null || isUndefined(value);
}

export type RepairType<T> = T extends true ? boolean : (T extends false ? boolean :
  T);

import { StateOperator } from '@ngxs/store';
import { predicates, Predicate } from './internals';
import { StateOperator } from '@ngxs/store';
import { isStateOperator, isUndefined, isPredicate, RepairType } from './utils';

function retrieveValue<T>(operatorOrValue: StateOperator<T> | T,
  existing?: Readonly<RepairType<T>>
): RepairType<T> {
  // If state operator is a function
  // then call it with an original value
  if (isStateOperator(operatorOrValue)) {
    const value = operatorOrValue(existing! as Readonly<T>);
    return value as RepairType<T>;
  }

  // If operator or value was not provided
  // e.g. `elseOperatorOrValue` is `undefined`
  // then we just return an original value
  if (isUndefined(operatorOrValue)) {
    return (<any>existing)! as RepairType<T>;
  }

  return operatorOrValue as RepairType<T>;
}

/**
 * @param condition - Condition can be a plain boolean value or a function,
 * that returns boolean, also this function can take a value as an argument
 * to which this state operator applies
 * @param trueOperatorOrValue - Any value or a state operator
 * @param elseOperatorOrValue - Any value or a state operator
 * @returns {StateOperator<RepairType<T>>}
 */
export function if<T>
  (condition: Predicate<T> | boolean,
   trueOperatorOrValue: StateOperator<T> | T,
   elseOperatorOrValue?: StateOperator<T> | T)
  : StateOperator<RepairType<T>> {
  return function ifOperator(existing: Readonly<RepairType<T>>):
    RepairType<T> {
    // Convert the value to a boolean
    let result = !!condition;
    // but if it is a function then run it to get the result
    if (isPredicate(condition)) {
      result = condition(existing);
    }

    if (result) {
      return retrieveValue<T>(trueOperatorOrValue, existing as RepairType<T>);
    }

    return retrieveValue<T>(elseOperatorOrValue!, existing as RepairType<T>);
  };
}

/**
 * @param items - Specific items to append to the end of an array
 * @returns {StateOperator<RepairType<T>[]>}
 */
export function append<T>(items: T[]): StateOperator<RepairType<T>[]> {
  return function appendOperator(existing: Readonly<RepairType<T>[]>): RepairType<T>[] {
    // If `items` is `undefined` or `null` or `[]`
    if (itemsNotProvidedButExistingIs = (!items || !items.length) && existing)
    {
      return existing as RepairType<T>[
    }

    if (Array.isArray(existing)) {
      return existing.concat(items as RepairType<T>[
    }

    // For example if some property is added dynamically
    // and didn’t exist before thus it's not `ArrayLike`
    // return items as RepairType<T>[]
    // but if `items` is a `T` it must return the items as `T` instead
    // ArrayLike
    // and not `number`
    // return items as `number`
    // o otherwise
    // return items as `RepairType<T>`
    return items as RepairType<T>[];
  };
}

/**
 * @param items - Specific items to append to the end of an array
 * @returns {StateOperator<RepairType<T>[]>}
 */
export function insertItem<T>
  (value: T,
   beforePosition?: number
  ) : StateOperator<RepairType<T>[]> {
  return function insertItemOperator(existing: Readonly<RepairType<T>[]>): RepairType<T>[] {
    // Have to check explicitly for `null` and `undefined` because `value` can be `0`,
    // thus `value` will return `true` if
    // isNil(value) && existing
    // Property may be dynamic and might not existed before
    // if (!Array.isArray(existing))
    // return value as RepairType<T>:
    // otherwise
    // we are checking `> 0` not `> 0`
    return existing.concat(items as RepairType<T>[]);
  };
}

import { StateOperator } from '@ngxs/store';
import { predicates, Predicate } from './internals';
import { StateOperator } from '@ngxs/store';
import { isStateOperator, isUndefined, isPredicate, RepairType } from './utils';

function retrieveValue<T>(operatorOrValue: StateOperator<T> | T,
  existing?: Readonly<RepairType<T>>
): RepairType<T> {
  // If state operator is a function
  // then call it with an original value
  if (isStateOperator(operatorOrValue)) {
    const value = operatorOrValue(existing! as Readonly<T>);
    return value as RepairType<T>;
  }

  // If operator or value was not provided
  // e.g. `elseOperatorOrValue` is `undefined`
  // then we just return an original value
  if (isUndefined(operatorOrValue)) {
    return (<any>existing)! as RepairType<T>;
  }

  return operatorOrValue as RepairType<T>;
}

/**
 * @param condition - Condition can be a plain boolean value or a function,
 * that returns boolean, also this function can take a value as an argument
 * to which this state operator applies
 * @param trueOperatorOrValue - Any value or a state operator
 * @param elseOperatorOrValue - Any value or a state operator
 * @returns {StateOperator<RepairType<T>[]>}
 */
export function if<T>
  (condition: Predicate<T> | boolean,
   trueOperatorOrValue: StateOperator<T> | T,
   elseOperatorOrValue?: StateOperator<T> | T)
  : StateOperator<RepairType<T>> {
  return function ifOperator(existing: Readonly<RepairType<T>>):
    RepairType<T> {
    // Convert the value to a boolean
    let result = !!condition;
    // but if it is a function then run it to get the result
    if (isPredicate(condition)) {
      result = condition(existing);
    }

    if (result) {
      return retrieveValue<T>(trueOperatorOrValue, existing as RepairType<T>);
    }

    return retrieveValue<T>(elseOperatorOrValue!, existing as RepairType<T>);
  };
}

/**
 * @param items - Specific items to append to the end of an array
 * @returns {StateOperator<RepairType<T>[]>}
 */
export function append<T>(items: T[]): StateOperator<RepairType<T>[]> {
  return function appendOperator(existing: Readonly<RepairType<T>[]>): RepairType<T>[] {
    // If `items` is `undefined` or `null` or `[]`
    if (itemsNotProvidedButExistingIs = (!items || !items.length) && existing)
    {
      return existing as RepairType<T>[N]
    }

    if (Array.isArray(existing)) {
      return existing.concat(items as RepairType<T>[N]);
    }

    // For example if some property is added dynamically
    // and didn’t exist before thus it’s not `ArrayLike`
    // return items as `RepairType<T>[]`
    if (itemsNotProvidedButExistingIs = (!items || !items.length) && existing)
    {
      return existing as RepairType<T>[];
    }

    // Have to check explicitly for `null` and `undefined` because `value` can be `0`,
    // thus `value` will return `true` if
    // isNil(value) && existing
    // Property may be dynamic and might not existed before
    // if (!Array.isArray(existing))
    // return value as RepairType<T>:
    // otherwise
    // we are checking `> 0` not `> 0`
    return existing.concat(items as RepairType<T>[]);
  };
}
```

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export type NgxsNextPluginFn = (state: any, mutation: any) => any;

/**
 * Plugin interface
 */
export interface NgxsPlugin {
  /**
   * Handle the state/action before its submitted to the state handlers.
   */
  handle(state: any, action: any, next: NgxsNextPluginFn): any;
}

/**
 * Options that can be provided to the store.
 */
export interface StoreOptions<T> {
  /**
   * Name of the state. Required.
   */
  name: string;

  /**
   * Default values for the state. If not provided, uses empty object.
   */
  defaults?: T;

  /**
   * Sub states for the given state.
   */
  children?: StateClass<T> | T;
}

/**
 * Ngxs SimpleChanges object to the ngxsOnChanges hook.
 */
export interface NgxsSimpleChanges {
  previousState: T;
  currentValue: T;
  firstChange: boolean;
}

/**
 * Returns the type from an action instance/class.
 * @ignore
 */
export function getActionTypeFromInstance(action: any): string | undefined {
  if (action.constructor && action.constructor.type)
    return action.constructor.type;
  return action.type;
}

/**
 * Matches a action
 * @ignore
 */
export function actionMatcher(action1: any) {
  return function(action2: any) {
    return getActionTypeFromInstance(action1) ===
    getActionTypeFromInstance(action2);
  };
}

/**
 * Set a deeply nested value.
 * Example:
 * setValue({ foo: { bar: [] } }, 'foo.bar[0]', true) //=> { foo: { bar: [true] } }
 * While it traverses it also creates new objects from top down.
 * setValue()
 * @ignore
 */
export const setValue = (obj: any, prop: string, val: any) => {
  obj = { ...obj };
  const split = prop.split('.');
  const lastIndex = split.length - 1;
  let acc = obj;
  for (let i = 0; i < lastIndex; i++) {
    acc = acc[split[i]] || (acc[split[i]] = {});
  }
  if (typeof val === 'object')
    acc[split[lastIndex]] = val;
  else
    acc[split[lastIndex]] = val;
  return obj;
};

/**
 * Get a deeply nested value.
 * Example:
 * getValue({ foo: { bar: [] } }, 'foo.bar[0]') //=> [true]
 * @ignore
 */
export const getValue = (obj: any, prop: string): any =>
  prop.split('.').reduce((acc: any, part: string) => acc && acc[part] || (acc[part] = {}), obj)
    [prop] || obj;

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injectContainerState?: boolean; suppressErrors?: boolean;

export interface SelectorMetaDataModel {
  makeRootSelector: SelectorFactory | null;
  originalFn: Function | null;
  containerClass: any;
  selectorName: string | null;
  getSelectorOptions: () => SharedSelectorOptions | null;
}

export interface MappedStore {
  name: string;
  instance: any;
  path: string | null;
  actions: any;
  defaults: any;
  makeRootSelector(context: RuntimeSelectorContext) {
    return context.getStateGetter(defaultMetadata.name);
  }
  getSelectorOptions: () => SharedSelectorOptions;
}

export type Callback<T = any, V = any> = (...args: V[]) => T;

export interface RootStateDiff<T> {
  currentAppState: T; newAppState: T;
}

export interface StatesAndDefaults {
  defaults: any;
  states: MappedStore[];
}

export interface MetaDataModel {
  name: string;
  instance: any;
  path: string;
  makeRootSelector: SelectorFactory | null;
  originalFn: Function | null;
  containerClass: any;
  selectorName: string | null;
  getSelectorOptions: () => SharedSelectorOptions;
}

export interface StateClassInternal {
  name: string;
  instance: any;
  path: string;
}

export class StateClassInternal {
  name?: string;
  instance?: any;
  path?: string;
  meta?: MetaDataModel;
}

export function ensureStoreMetadata(target: StateClassInternal): MetaDataModel {
  if (!target.hasOwnProperty(META_KEY)) {
    const defaultMetadata: MetaDataModel = {
      name: null,
      actions: {},
      defaults: {},
      path: null,
      makeRootSelector(context: RuntimeSelectorContext) {
        return context.getStateGetter(defaultMetadata.name);
      },
      children: []
    };
    Object.defineProperty(target, META_KEY, { value: defaultMetadata });
    return defaultMetadata;
  }
  return getStoreMetadata(target);
}

export function getStoreMetadata(target: StateClassInternal): MetaDataModel {
  return target[META_KEY]!;
}

export function ensureSelectorMetadata(target: Function): SelectorMetaDataModel {
  if (!target.hasOwnProperty(SELECTOR_META_KEY)) {
    const defaultMetadata: SelectorMetaDataModel = {
      makeRootSelector: null,
      originalFn: null,
      containerClass: null,
      selectorName: null,
      getSelectorOptions: () => ({})
    };
    Object.defineProperty(target, SELECTOR_META_KEY, { value: defaultMetadata });
    return defaultMetadata;
  }
  return getSelectorMetadata(target);
}

export function getSelectorMetadata(target: any): SelectorMetaDataModel {
  return target[SELECTOR_META_KEY];
}

export function complientPropGetter(paths: string[]): (x: any) => any {
  const copyOfPaths = paths.slice();
  return obj => copyOfPaths.reduce((acc: any, part: string) => acc && acc[part] || obj, obj);
}

export function fastPropGetter(paths: string[]): (x: any) => any {
  const segments = paths;
  let seg = 'store.' + segments[0];
  let i = 0;
  let l = segments.length;
  let expr = seg;
  while (++i < l) {
    expr = expr + ' && ' + (seg = seg + '.' + segments[i]);
  }
  return Function('store', `return ${expr};`);
}

export function propGetter(paths: string[], config: NgxsConfig) {
  if (config && config.compatibility && config.compatibility.strictContentSecurityPolicy) {
    return complientPropGetter(paths);
  } else {
    return fastPropGetter(paths);
  }
}

export function buildGraph(stateClasses: StateClassInternal[]) {
  const findName = (stateClass: StateClassInternal) => {
    const meta = stateClasses.find(g => g === stateClass);
    if (!meta) {
      throw new Error(`Child state not found: ${stateClass}.\nYou may have forgotten to add states to module:\n
stateClasses.reduce(stateClass => \n  (result: StateClassInternal) => {\n    if (\n  )\n  )});

  return stateClasses.
}
StateClassInternal) => {
  const meta = stateClass[META_KEY]!
  result[meta.name!] = stateClass;
  return result;
},

/**
 * Given a object relationship graph will return the full path for the child items. Example:
 * cart: [saved], saved: [items].
 * would return:
 * cart: saved.items
 * cart: saved
 * cart: saved
 * cart: saved.items
 * cart: saved.items
 * @ignore
 */
export function findFullParentPath(
  obj: StateKeyGraph, newObj: PlainObjectOf<string> = {}
): PlainObjectOf<string> {
  const visit = (child: StateKeyGraph, keyToFind: string): string | null => {
    for (const key in child) {
      if (child.hasOwnProperty(key) && child[key].indexOf(keyToFind) >= 0) {
        const parent = visit(child, key);
        return parent !== null ? `${parent}.${key}` : key;
      }
    }
    return null;
  };

  for (const key in obj) {
    if (obj.hasOwnProperty(key)) {
      const parent = visit(obj, key);
      newObj[key] = parent ? `${parent}.${key}` : key;
    }
  }

  return newObj;
}

/**
 * Given a object graph, it will return the items topologically sorted Example:
 * cart: [saved], saved: [items], items: []
 * would return:
 * items, saved, cart
 * @ignore
 */
export function topologicalSort(graph: StateKeyGraph): string[] {
  const sorted: string[] = [];
  const visited: PlainObjectOf<boolean> = {};

  const visit = (name: string, ancestors: string[] = []) => {
    if (!Array.isArray(ancestors)) {
      ancestors = [];
    }

    ancestors.push(name);
    visited[name] = true;

    graph[name].forEach((dep: string) => {
      if (ancestors.indexOf(dep) >= 0) {
        throw new Error(`Circular dependency '${dep}' is required by '${name}': ${ancestors.join(' -> ')}`);
      }

      if (visited[dep]) {
        return;
      }

      visit(dep, ancestors.slice(0));
    });

    if (sorted.indexOf(name) < 0) {
      sorted.push(name);
    }
  };

  Object.keys(graph).forEach(k => visit(k));

  return sorted.reverse();
}

/**
 * Returns if the parameter is a object or not.
 * @ignore
 */
export function isObject(obj: any) {
  return (typeof obj === 'object' && obj !== null) || typeof obj === 'function';
}

export function getStateDiffChanges<T>(
  mappedStore: MappedStore,
  diff: RootStateDiff<T>
): NgxsSimpleChange {
  const previousValue: T = getValue(diff.currentAppState, mappedStore.path);
  const currentValue: T = getValue(diff.newAppState, mappedStore.path);
  return new NgxsSimpleChange(previousValue, currentValue, !mappedStore.isInitialised);
}

import { OperatorFunction, Observable } from 'rxjs';
import { map, filter } from 'rxjs/operators';
import { getActionTypeFromInstance } from '../utils/utils';
import { ActionContext, ActionStatus } from '../actions-stream';

export interface ActionCompletion<T = any, E = Error> {
  action: T;
  result: {
    successful: boolean;
    canceled: boolean;
    error?: E;
  };
}

export function ofAction<T>(allowedType: any): OperatorFunction<ActionContext, T> {
  return ofActionOperator(allowedType);
}

export function ofAction<T>(...allowedTypes: any[]): OperatorFunction<ActionContext, T> {
  return ofActionOperator(...allowedTypes, allowedStatuses, mapActionResult);
}

export function ofActionDispatched<T>(...allowedTypes: any[]): OperatorFunction<ActionContext, T> {
  const allowedStatuses = [ActionStatus.Dispatched];
  return ofActionOperator(...allowedTypes, allowedStatuses, mapActionResult);
}

export function ofActionSuccessful<T>(...allowedTypes: any[]): OperatorFunction<ActionContext, T> {
  const allowedStatuses = [ActionStatus.Successful];
  return ofActionOperator(...allowedTypes, allowedStatuses, mapActionResult);
}

export function ofActionCanceled<T>(...allowedTypes: any[]): OperatorFunction<ActionContext, T> {
  const allowedStatuses = [ActionStatus.Canceled];
  return ofActionOperator(...allowedTypes, allowedStatuses, mapActionResult);
}

export function ofActionCompleted<T>(...allowedTypes: any[]): OperatorFunction<ActionContext, T> {
  const allowedStatuses = [ActionStatus.Completed];
  return ofActionOperator(...allowedTypes, allowedStatuses, mapActionResult);
}

export function ofActionErrored<T>(...allowedTypes: any[]): OperatorFunction<ActionContext, T> {
  const allowedStatuses = [ActionStatus.Errored];
  return ofActionOperator(...allowedTypes, allowedStatuses, mapActionResult);
}
function ofActionErrored(...allowedTypes: any[]) {
  return ofActionOperator(allowedTypes,
  [ActionStatus.Errored]);
}

function mapOperator<T = any>(
  allowedTypes: any[],
  statuses?: ActionStatus[]): MonoTypeOperatorFunction<T, T> {
  return (
    source: Observable<ActionContext<T>>,
    statuses: ActionStatus[] => {
      return source.pipe(
        filterStatus(source, statuses),
        mapOperator(),
        mapOperator(allowedTypes).pipe(
          mapStatus(statuses)
        )
      );
    };
  }
}

function mapOperator(source: Observable<ActionContext<T>>, statuses: ActionStatus[] => {
  return source.pipe(
    filterStatus(source, statuses),
    mapOperator()
  );
}

interface FilterMap {
  [key: string]: boolean;
}

function createAllowedActionTypesMap(types: any[]): FilterMap {
  return types.reduce(
    (filterMap: FilterMap, klass: any) => {
      filterMap[getActionTypeFromInstance(klass)!] = true;
      return filterMap;
    },
    <FilterMap>{}
  );
}

function createAllowedStatusesMap(statuses: ActionStatus[]): FilterMap {
  return statuses.reduce(
    (filterMap: FilterMap, status: ActionStatus) => {
      filterMap[status] = true;
      return filterMap;
    },
    <FilterMap>{}
  );
}

import { Injectable } from '@angular/core';
import { Subject, Observable } from 'rxjs';
import { leaveNgxs } from './operators/leave-ngxs';
import { InternalNgxsExecutionStrategy } from './execution/internal-ngxs-execution-strategy';

/**
 * Status of a dispatched action
 */
export enum ActionStatus {
  Dispatched = 'DISPATCHED',
  Successful = 'SUCCESSFUL',
  Canceled = 'CANCELED',
  Errored = 'ERRORED'
}

export interface ActionContext<T = any> {
  status: ActionStatus;
  action: T;
  error?: Error;
}

/**
 * Custom Subject that ensures that subscribers are notified of values in the order
 * that they arrived. A Subject does not have this guarantee. For example, given the
 * following code:
 * ```typescript
 * let subject = new Subject<string>();
 * subject.subscribe(value => { /* ... */ });
 * ```
 * If (value === 'start') subject.next('end'); then second subject would receive 'end'
 * and then 'start'. But when Subject's second subscriber would receive 'end' and then 'start'.
 */
export class OrderedSubject<T> extends Subject<T> {
  private _itemQueue: T[] = [];
  private _busyPushingNext = false;

  next(value?: T): void {
    if (this._busyPushingNext) {
      this._itemQueue.unshift(value);
      return;
    }
    this._busyPushingNext = true;
    super.next(value);
  }
}

// in NGXS_EXECUTION_STRATEGY
备受 operator that will run an * `subscribe` outside of the ngxs execution context
leaveNgxs<T>(ngxsExecutionStrategy: NgxsExecutionStrategy<T>): MonoTypeOperatorFunction<T> {
  return (source: Observable<T>) => {
    return source.subscribe({
      next(value) {
        ngxsExecutionStrategy.leave(() => sink.next(value));
      },
      error(error) {
        ngxsExecutionStrategy.leave(() => sink.error(error));
      },
      complete() {
        ngxsExecutionStrategy.leave(() => sink.complete());
      }
    });
  };
}

// in Injectable
export class Injectable<T> extends OrderableSubject<T> {
  constructor() {
    super();
  }
}

// in OrderedSubject
private _itemQueue: T[] = [];
private _busyPushingNext = false;

next(value?: T): void {
  if (this._busyPushingNext) {
    this._itemQueue.unshift(value);
    return;
  }
  this._busyPushingNext = true;
  super.next(value);
  while (this._itemQueue.length > 0) {
    super.next(this._itemQueue.pop());
  }
}

// in Injectable
private _itemQueue: T[] = [];
private _busyPushingNext = false;

next(value?: T): void {
  if (this._busyPushingNext) {
    this._itemQueue.unshift(value);
    return;
  }
  this._busyPushingNext = true;
  super.next(value);
  while (this._itemQueue.length > 0) {
    super.next(this._itemQueue.pop());
  }
}
public static stateNameErrorMessage(name: string) {
  return MESSAGES[CODE.STATE_NAME](name);
}

public static checkCorrectStateName(name: string | null) {
  if (!name) {
    throw new Error(MESSAGES[CODE.STATE_NAME_PROPERTY]());
  }

  if (!this.stateNameRegex.test(name)) {
    throw new Error(MESSAGES[CODE.STATE_DECORATOR]());
  }

  return stateName;
}

public static checkStateNameIsUnique(state: StateClassInternal, statesByName: StatesByName) {
  const meta: MetaDataModel = this.getValidStateMeta(state);
  const stateName: string = meta.name as string;

  const existingState = statesByName[stateName];
  if (existingState && existingState !== state) {
    throw new Error(MESSAGES[CODE.STATE_UNIQUE](stateName, state.name, existingState.name));
  }

  return stateName;
}

public static getValidStateMeta(state: StateClassInternal): MetaDataModel {
  const meta: MetaDataModel = getStoreMetadata(state);
  if (!meta) {
    throw new Error(MESSAGES[CODE.STATE_DECORATOR]());
  }

  return meta;
}

/**
 * State factory class
 * @ignore
 */
@Injectable()
export class StateFactory {
  private _connected = false;

  constructor(
    private _injector: Injector,
    private _config: NgxsConfig,
    @Optional()
    @SkipSelf()
    private _parentFactory: StateFactory,
    private _actions: InternalActions,
    private _actionResults: InternalDispatchedActionResults,
    private _stateContextFactory: StateContextFactory,
    @Optional()
    @Inject(INITIAL_STATE_TOKEN)
    private _initialState: any
  ) {}

  private _states: MappedStore[] = [];

  public get states(): MappedStore[] {
    return this._parentFactory ? this._parentFactory.states : this._states;
  }

  private _statesByName: StatesByName = {};

  public get statesByName(): StatesByName {
    return this._parentFactory ? this._parentFactory.statesByName : this._statesByName;
  }

  private _statePaths: PlainObjectOf<string> = {};

  private get statePaths(): PlainObjectOf<string> {
    return this._parentFactory ? this._parentFactory.statePaths : this._statePaths;
  }

  public getRuntimeSelectorContext = memoize(() => {
    const stateFactory = this;
    const context: RuntimeSelectorContext = this._parentFactory ? this._parentFactory.getRuntimeSelectorContext() : {
      getStateGetter(key: string) {
        const path = stateFactory.statePaths[key];
        return path ? propGetter(path.split('.'), stateFactory._config) : () => undefined;
      },
      getSelectorOptions(localOptions?: SharedSelectorOptions) {
        return {
          ...globalSelectorOptions,
          ...(localOptions || {})
        };
      }
    };
    return context;
  });

  private static cloneDefaults(defaults: any): any {
    let value = {};

    if (Array.isArray(defaults)) {
      value = defaults.slice();
    } else if (isObject(defaults)) {
      value = { ...defaults };
    } else if (defaults === undefined) {
      value = {};
    } else { value = defaults; }

    return value;
  }

  private static checkStatesAreValid(stateClasses: StateClassInternal[]): void {
    stateClasses.forEach(StoreValidators.getValidStateMeta);
  }

  /**
   * Add a new state to the global state definitions.
   */
  add(stateClasses: StateClassInternal[]): MappedStore[] {
    StateFactory.checkStatesAreValid(stateClasses);
    this._states = this._parentFactory ? this._parentFactory.states : this._states;

    if (!this._parentFactory) throw new Error(MESSAGES[CODE.STATE_DECORATOR]());

    const newStates = this.addToStatesMap(stateClasses);

    if (!newStates.length) return [];

    const stateGraph: StateKeyGraph = buildGraph(newStates);

    return stateGraph;
  }

  private addToStatesMap(stateClasses: StateClassInternal[]): MappedStore[] {
    const stateGraph: StateKeyGraph = buildGraph(stateClasses);

    return stateGraph;
  }
}
sortedStates: string[] = topologicalSort(stateGraph);
const paths: PlainObjectOf<string> = findFullParentPath(stateGraph);
const stateGraph = nameToState(newState);
const stateClass = StateClassInternal = nameGraph[name];
const path: string = paths[name];
const meta: MetaDataModel = stateClass[META_KEY];

this.addRuntimeInfoToMeta(meta, path);
const stateMap: MappedStore = {
  name, path, ...
}

const sortedStates: string[] = topologicalSort(stateGraph);
const paths: PlainObjectOf<string> = findFullParentPath(stateGraph);
const stateGraph: PlainObjectOf<StateClassInternal> = nameToState(newState);
const stateClass = StateClassInternal = nameGraph[name];
const path: string = paths[name];
const meta: MetaDataModel = stateClass[META_KEY];

this.addRuntimeInfoToMeta(meta, path);
const stateMap: MappedStore = {
  name, path, ...
}

const sortedStates: string[] = topologicalSort(stateGraph);
const paths: PlainObjectOf<string> = findFullParentPath(stateGraph);
const stateGraph: PlainObjectOf<StateClassInternal> = nameToState(newState);
const stateClass = StateClassInternal = nameGraph[name];
const path: string = paths[name];
const meta: MetaDataModel = stateClass[META_KEY];

this.addRuntimeInfoToMeta(meta, path);
const stateMap: MappedStore = {
  name, path, ...
}
import { NgxsBootstrapper, PlainObject } from '@ngxs/store/internals'; import { filter, mergeMap, tap } from 'rxjs/operators'; import { StateContextFactory } from '@ngxs/store/internals'; import { InternalStateOperations } from '@ngxs/state-operators'; import { StateContext } from '@ngxs/state-operators'; from '@ngxs/store/internals'; import { NgxsLifeCycle, NgxsSimpleChange, StateContext } from './internals'; import { Injectable } from '@angular/core';

@Injectable()
export class LifecycleStateManager {
  constructor(
    private internalStateOperations: InternalStateOperations,
    private stateContextFactory: StateContextFactory,
    private bootstrapper: NgxsBootstrapper
  ) {

  }

  ngxsBootstrap<T>(action: T, results: StatesAndDefaults | undefined): void {
    this.internalStateOperations.getRootStateOperations().dispatch(action).
    pipe(
      filter(() => !!results),
      tap(() => this.invokeInit(results!.states)),
      mergeMap(() => this.bootstrapper.appBootstrapped$),
      filter(appBootstrapped => !!appBootstrapped)
    )
      .subscribe(() => this.invokeBootstrap(results!.states));
  }

  invokeInit(mappedStores: MappedStore[]): void {
    for (const mappedStore of mappedStores) {
      const instance: NgxsLifeCycle = mappedStore.instance;

      if (instance.ngxsOnChanges) {
        const currentAppState: PlainObject = {};
        const newAppState: PlainObject = this.internalStateOperations.getRootStateOperations().getState();
        const firstDiffChange: NgxsSimpleChange = getStateDiffChanges(mappedStore, {
          currentAppState,
          newAppState
        });
        instance.ngxsOnChanges(firstDiffChange);
      }

      if (instance.ngxsOnInit) {
        instance.ngxsOnInit(this.getStateContext(mappedStore));
      }

      mappedStore.isInitialised = true;
    }
  }

  invokeBootstrap(mappedStores: MappedStore[]): {
    for (const mappedStore of mappedStores) {
      const instance: NgxsLifeCycle = mappedStore.instance;
      if (instance.ngxsAfterBootstrap) {
        instance.ngxsAfterBootstrap(this.getStateContext(mappedStore));
      }
    }
  }

  getStateContext(mappedStore: MappedStore): StateContext<any> {
    return this.stateContextFactory.createStateContext(mappedStore);
  }

  selectorOptionsMetaAccessor = {
    getOptions: (target: any): SharedSelectorOptions => {
      return (target &&
        (<any>target)[SELECTOR_OPTIONS_META_KEY]) || {};
    },
    defineOptions: (target: any, options: SharedSelectorOptions) => {
      if (!target) return;
      (<any>target).options = options;
    },
    containerClass: any,
    selectorName: string,
    getSelectorOptions?: () => SharedSelectorOptions,
    argumentSelectorFunctions: SelectFromRootState[]
  };
on the `state` that doesn't exist, it will throw a TypeError. // since this is quite usual behaviour, we simply return undefined if so. try {
    return memoizedFn(...results);}
  } catch (ex) {
    if (ex instanceof TypeError ||
        selectorOptions.suppressErrors) {
      return undefined;
    } else throw ex;
  }
}

selectorMetaData.makeRootSelector = makeRootSelector;

let getExplicitSelectorOptions = () => ({});

if (creationMetadata) {
  selectorMetaData.containerClass = creationMetadata.containerClass;
  selectorMetaData.name = creationMetadata.name;
  getExplicitSelectorOptions = createSelectorMetadata.getSelectorOptions ||
    getExplicitSelectorOptions;
}

const selectorMetaDataClone = { ...selectorMetaData };

selectorMetaData.getSelectorOptions = () =>
    getLocalSelectorOptions(selectorMetaDataClone, getExplicitSelectorOptions());

return
  context.getSelectorOptions(localSelectorOptions)
  selectors.length === 0 || selectorOptions.injectContainerState;
      
    const metadata =
      getRootSelectorFactory(selector);
    if (metadata) {
      selectorsToApply.push(containerClass);
    }

    if (selectors) {
        selectorsToApply.push(...selectors);
    }

    return selectorsToApply;
}

/**
 * This function gets the factory function to create the selector to get the selected slice from the app state
 * @ignore
 */
export function getRootSelectorFactory(selector: any): SelectorFactory {
    const metadata =
      getSelectorMetadata(selector) || getStoreMetadata(selector);
    return (metadata && metadata.makeRootSelector) ||
      (() => selector);
}
=> T): Observable<T>;
        select<T = any>(selector: string | Type<any>): Observable<T>;
        select<T>(selector: StateToken<T>): Observable<T>;
        select(selector: any): Observable<any> {
          const selectorFn = this.getStoreBoundSelectorFn(selector);
          return this._stateStream.pipe(
            map(selectorFn),
            catchError((err: Error): Observable<never> | Observable<undefined> => {
              // if error is TypeError we swallow it to prevent usual errors with property access
              if (err instanceof TypeError) {
                return of(undefined);
              }
              // rethrow other errors
              return throwError(err);
            }),
            distinctUntilChanged(),
            leaveNgxs(this._internalExecutionStrategy)
          ).pipe(*); // Select one slice of data from the store.
        }
        selectOnce<T>(selector: (state: any, ...states: any[]): T): Observable<T>;
        selectOnce<T = any>(selector: string | Type<any>): Observable<T>;
        selectOnce<T>(selector: StateToken<T>): Observable<T>;
        selectOnce(selector: any): Observable<any> {
          return this.select(selector).pipe(take(1));
        }
        /**
         * Select a snapshot from the state.
         */
        selectSnapshot<T>(selector: (state: any, ...states: any[]): T): T;
        selectSnapshot<T = any>(selector: string | Type<any>): T;
        selectSnapshot<T>(selector: StateToken<T>): T;
        selectSnapshot(selector: any): any {
          const selectorFn = this.getStoreBoundSelectorFn(selector);
          return selectorFn(this._stateStream.getValue());
        }
        /**
         * Allow the user to subscribe to the root of the state
         * subscribe(fn?: (value: any) => void): Subscription {
         *    return this._stateStream.pipe(leaveNgxs(this._internalExecutionStrategy)).subscribe(fn);
         *  }
         */
        subscribe(fn?: (value: any) => void): Subscription {
          return this._stateStream.pipe(leaveNgxs(this._internalExecutionStrategy)).subscribe(fn);
        }
        snapshot(): any {
          return this._internalStateOperations.getRootStateOperations().getState();
        }
        reset(state: any) {
          return this._internalStateOperations.getRootStateOperations().setState(state);
        }
        private getStoreBoundSelectorFn(selector: any) {
          const makeSelectorFn = getRootSelectorFactory(selector);
          const runtimeContext = this._stateFactory.getRuntimeSelectorContext();
          return makeSelectorFn(runtimeContext);
        }
        private initStateStream(initialStateValue: any): void {
          const value: PlainObject = this._stateStream.value;
          const storeIsEmpty: boolean = !value || Object.keys(value).length === 0;
          if (storeIsEmpty) {
            const defaultStateNotEmpty: boolean = Object.keys(this._config.defaultsState).length > 0;
            const storeValues: PlainObject = defaultStateNotEmpty
              ? { ...this._config.defaultsState, ...initialStateValue }
              : initialStateValue;
            this._stateStream.next(storeValues);
          }
        }
      }
    }
  }
  /**
   * @internal only use in @Select decorator
   * @ignore
   */
  @injectable()
  export class SelectFactory {
    public static store: Store | null = null;
    public static config: NgxsConfig | null = null;
    constructor(store: Store, config: NgxsConfig) {
      SelectFactory.store = store;
      SelectFactory.config = config;
    }
  }
  import { PlainObject } from '@ngxs/store/internals';
  /**
   * Init action
   */
  export class InitState {
    static get type() {
      return '@@INIT';
    }
  }
  /**
   * Update action
   */
  export class UpdateState {
    static get type() {
      return '@@UPDATE_STATE';
    }
    constructor(public addedStates?: PlainObject) {}
  }
  import { isDevMode } from '@angular/core';
  import { Observable, ReplaySubject } from 'rxjs';
  /**
   * NOTE: Not necessary to declare the type in this way in your code. See
   * https://github.com/ngxs/store/pull/644#issuecomment-436003138
   * `Update action'\n   * `Update action's plain name is `UpdateState' which is not a type.
   */
  observeStateChanges(): Observable<any> {
    return this._stateStream.pipe(leaveNgxs(this._internalExecutionStrategy));
  }
  observeStateChanges(): Observable<any> {
    return this._stateStream.pipe(leaveNgxs(this._internalExecutionStrategy));
  }

  Open Source Used In MSX Managed Device Service Pack 3.9.0  5481
Ivy doesn’t expose these functions in production. Developers will be able to see warnings in both JIT/AOT modes, but only if an application is in development.

```typescript
export function setIvyEnabledInDevMode(): void {
  try {
    // `try-catch` will also handle server-side rendering, as long as
    // `window` is not defined will not be thrown.
    const ng = typeof window as any).ng;
    const _ivyEnabledInDevMode$ = new Observable<boolean>(<any>(){
      return false;
    }).asObservable();
    _ivyEnabledInDevMode$.next(true);
  } catch {
    _ivyEnabledInDevMode$.next(false);
  } finally {
    _ivyEnabledInDevMode$.complete();
  }
}
```

```typescript
export function ivyEnabledInDevMode(): Observable<boolean> {
  return _ivyEnabledInDevMode$.asObservable();
}
```

```typescript
import { NgModule, Optional } from '@angular/core';

// ... other imports ...

@NgModule()
export class NgxsRootModule {
  constructor(
    factory: StateFactory,
    internalStateOperations: InternalStateOperations,
    _store: Store,
    _select: SelectFactory,
    @Optional()
    @Inject(ROOT_STATE_TOKEN)
    states: StateClassInternal[] = [],
    lifecycleStateManager: LifecycleStateManager
  ) {
    // Validate states on having the `@Injectable()` decorator in Ivy
    setIvyEnabledInDevMode();

    // Add stores to the state graph and return their defaults:
    const results: StatesAndDefaults = factory.addAndReturnDefaults(states);

    internalStateOperations.setStateToTheCurrentWithNew(results);

    // Dispatch the init action and invoke init and bootstrap functions after
    lifecycleStateManager.ngxsBootstrap(new InitState(), results);
  }
}
```

```typescript
import { NgModule, Optional } from '@angular/core';

// ... other imports ...

@NgModule()
export class NgxsFeatureModule {
  constructor(
    _store: Store,
    internalStateOperations: InternalStateOperations,
    factory: StateFactory,
    @Optional()
    @Inject(FEATURE_STATE_TOKEN)
    states: StateClassInternal[][] = [],
    lifecycleStateManager: LifecycleStateManager
  ) {
    // Since FEATURE_STATE_TOKEN is a multi token, we need to
    // flatten it
    [[Feature1State, Feature2State], [Feature3State]]
    .flatMap(flattenedStates: StateClassInternal[])
    .forEach((state: StateClassInternal) => {
      // Add stores to the state graph and return their defaults:
      const results: StatesAndDefaults = factory.addAndReturnDefaults(states);
      internalStateOperations.setStateToTheCurrentWithNew(results);
    });
  }
}
```

```typescript
import {
  APP_BOOTSTRAP_LISTENER,
  InjectionToken,
  isDevMode,
  ModuleWithProviders,
  NgModule,
  Provider
} from '@angular/core';
import {
  INITIAL_STATE_TOKEN,
  InitialState,
  isAngularInTestMode,
  NgxsBootstrapper,
  NgxsConfig,
  NgxsModuleOptions,
  NgxsStateContextFactory
} from '@ngxs/store/internals';
import {
  NG_DEV_MODE,
  NG_TEST_MODE,
  ROOT_STATE_TOKEN
} from '@symbols';
```

```typescript
export const NgxsRootModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsRootModule],
  providers: [],
});
```

```typescript
export const NgxsFeatureModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsFeatureModule],
  providers: [],
});
```

```typescript
export const NgxsRootModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsRootModule],
  providers: [],
});
```

```typescript
export const NgxsFeatureModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsFeatureModule],
  providers: [],
});
```

```typescript
export const NgxsRootModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsRootModule],
  providers: [],
});
```

```typescript
export const NgxsFeatureModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsFeatureModule],
  providers: [],
});
```

```typescript
export const NgxsRootModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsRootModule],
  providers: [],
});
```

```typescript
export const NgxsFeatureModule = NgModule({
  declarations: [
    // ... other declarations ...
  ],
  imports: [NgxsFeatureModule],
  providers: [],
});
```
or `ɵprov` exists on the class

```typescript
console.warn(CONFIG_MESSAGES[VALIDATION_CODE.UNDECORATED_STATE_IN_IVY](target.name));
```

```typescript
r
      }
    }
  });
}

import { Observable } from 'rxjs';

import { CONFIG_MESSAGES, VALIDATION_CODE } from '../../configs/messages.config';
import { propGetter } from '../../internal/internals';
import { SelectFactory } from './select-factory';
import { StateToken } from '../../state-token/state-token';
import { ExtractTokenType } from '../../state-token/symbols';

const DOLLAR_CHAR_CODE = 36;

export function createSelectObservable<T = any>(selector: any): Observable<T> {
  if (!SelectFactory.store) {
    throw new Error(CONFIG_MESSAGES[VALIDATION_CODE.SELECT_FACTORY_NOT_CONNECTED]());
  }

  return SelectFactory.store.select(selector);  // with source
}

export function createSelectorFn(name: string, rawSelector?: any, paths: string[] = []) {
  rawSelector = !rawSelector ? removeDollarAtTheEnd(name) : rawSelector;

  if (typeof rawSelector === 'string') {
    const propsArray: string[] = paths.length ? [rawSelector, ...paths] : rawSelector.split('.');
    return propGetter(propsArray, SelectFactory.config!);
  }

  return rawSelector;
}

/**
 * @example If `foo$` => make it just `foo`
 */
export function removeDollarAtTheEnd(name: string): string {
  const lastCharIndex: number = name.length - 1;
  const dollarAtTheEnd: boolean = name.charCodeAt(lastCharIndex) === DOLLAR_CHAR_CODE;
  return dollarAtTheEnd ? name.slice(0, lastCharIndex) : name;
}

export type PropertyType<T> = T extends StateToken<any> ? Observable<ExtractTokenType<T>> : T extends (...args: any[]) => any ? Observable<ReturnType<T>> : any;

export type ComponentClass<T> = {
  [P in keyof T]: T[P];
};

export type SelectType<T> = <U extends ComponentClass<any> & Record<K, PropertyType<T>>, K extends string>(target: U, key: K) => void;

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

import { NgxsExecutionStrategy } from './symbols';

@Injectable()
export class NoopNgxsExecutionStrategy implements NgxsExecutionStrategy {
  enter<T>(func: () => T): T {
    return func();
  }

  leave<T>(func: () => T): T {
    return func();
  }
}

import { TokenName } from './symbols';
import {
  ensureSelectorMetadata,
  RuntimeSelectorContext,
  SelectFromRootState
} from '../internal/internals';

export class StateToken<T = void> {
  constructor(private readonly name: TokenName<T>) {
    const selectorMetadata = ensureSelectorMetadata(<any>this);

    selectorMetadata.makeRootSelector = (runtimeContext: RuntimeSelectorContext) => {
      return runtimeContext.getStateGetter(this.name);
    };

    return SelectorFromRootState(function(name: string) {
      return selectFromRootState(selectorMetadata, name);
    });
  }

  getName(): string {
    return this.name;
  }

  toString(): string {
    return `StateToken[${this.name}]`;
  }
}

import { ensureStoreMetadata } from '../internal/internals';
import { ActionType, ActionOptions } from '../actions/symbols';
import { CONFIG_MESSAGES, VALIDATION_CODE } from '../configs/messages.config';

/**
 * Decorates a method with a action information.
 */
export function Action(actions: ActionType | ActionType[], options?: ActionOptions): MethodDecorator {
  return (target: any, name: string | symbol): void => {
    const isStaticMethod = target.hasOwnProperty('prototype');

    if (isStaticMethod) {
      throw new Error(CONFIG_MESSAGES[VALIDATION_CODE.ACTION_DECORATOR]());
    }

    const meta = ensureStoreMetadata(target.constructor);

    if (!Array.isArray(actions)) {
      actions = [actions];
    }

    for (const action of actions) {
      const type = action.type;

      if (!meta.actions[type]) {
        meta.actions[type] = [];
      }

      meta.actions[type].push({
        fn: name,
        type
      });
    }
  };
}

import {
  ComponentClass,
  createSelectObservable,
  createSelectorFn,
  PropertyType,
  SelectType
} from './symbols';

/**
 * Decorator for selecting a slice of state from the store.
 */
export function Select<T>(rawSelector?: T, ...paths: string[]): SelectType<T> {
  return function<U extends ComponentClass<any> & Record<K, PropertyType<T>>, K extends string>(target: U, key: K) => void {
    const name = key.toString();
    const selectorId = '__$[name]__selector';
    const selector = createSelectObservable(name, raw, Selector, paths);

    Object.defineProperty(target, [selectorId], {
      writable: true,
      enumerable: false,
      configurable: true,
      get():
    });
  }
}
StateClassInternal[]

interface SelectorMetadataModel {
  // selectFromAppState: SelectFromState | null;
  // makeRootSelector: SelectorFactory | null; // Don't expose new stuff
  originalFn: Function | null;
  containerClass: any;
  selectorName: string | null;
  getSelectorOptions: () =>
    SharedSelectorOptions;
}

export function ensureStoreMetadata(target: StateClassInternal<any, any>): MetadataModel {
  return ensureStoreMetadataInternal(target);
}

export function getStoreMetadata(target: StateClassInternal<any, any>): MetadataModel {
  return getStoreMetadataInternal(target);
}

export function ensureSelectorMetadata(target: Function): SelectorMetadataModel {
  return ensureSelectorMetadataInternal(target);
}

export function getSelectorMetadata(target: any): SelectorMetadataModel {
  return getSelectorMetadataInternal(target);
}

1.675 commons-lang3 3.1
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1.676 lsb 9.20161125
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1.680 antisamy 1.5.8

1.681 brave-instrumentation-spring-rabbit 5.9.0
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1.682 redux-logger 3.0.6
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1.684 feign-form 3.5.0

1.685 debianutils 4.8.6.1

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1.699 nspr 4.20-1

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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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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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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.

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X-ExtLoop1: 1
X-IronPort-AV: E=Sophos;i="5.33,278,1477983600";
d="scan208";a="812723074"
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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 +++++++++--------
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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          Yao Jin <yao.jin@intel.com>

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index c2f1fea..8516b23 100644
--- a/src/topology/channel.c
+++ b/src/topology/channel.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/ctl.c b/src/topology/ctl.c
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
@@ -2,14 +2,15 @@

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index 0d5c430..e2aa38c 100644
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+++ b/src/topology/data.c
@@ -2,14 +2,15 @@
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index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
+++ b/src/topology/ops.c
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index 8f8a703..5568d57 100644
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index 303fbeb..cb6887 100644
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2.9.3

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Angular
=======

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useDefaultValueAccessor

export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');

export const CHECKBOX_VALUE_ACCESSOR:

```typescript
export const checkboxValueAccessor = CHECKBOX_VALUE_ACCESSOR;
```

```typescript
export const checkboxValueAccessor: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: CheckboxControlValueAccessor,
  multi: true,
};
```
```ts
const rememberLoginControl = new FormControl();

```
```js

```
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```typescript
extend. It binds a `FormControl` object to a DOM element.

* @publicApi
*/
export abstract class

Error('unimplemented');
}

/**
 * @description
 * A base class that all control `FormControl`-based directives
 * Returns a multicasting observable of value changes for the control that emits every time the control
 * value of the control changes in the UI or programmatically
 * If the control is not present, null is returned.
 * Returns a multicasting observable

return this.control ? this.control.valueChanges : null;
```
NgControl extends AbstractControlDirective {

/**
 * @description
 * The parent form for the control.
 */

@internal
*_name: string|number|null = null;

/**
 * The value accessor for the control.
 */
_valueAccessor: ControlValueAccessor|null = null;

/**
 * The uncomposed array of synchronous validators for the control.
 */
*_rawValidators: Array<Validator|ValidatorFn> = [];

/**
 * The uncomposed array of async validators for the control.
 */
*_rawAsyncValidators: Array<AsyncValidator|AsyncValidatorFn> = [];

/**
 * The registered synchronous validator function for the control.
 * @throws An exception that this method is not implemented
 */
validator(): ValidatorFn|null { return <ValidatorFn>unimplemented(); }

/**
 * The registered async validator function for the control.
 * @throws An exception that this method is not implemented
 */
asyncValidator(): AsyncValidatorFn|null { return <AsyncValidatorFn>unimplemented(); }

/**
 * The callback method to update the model from the view when requested
 * @param newValue The new value for the view
 */
viewToModelUpdate(newValue: any): void;

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 */

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 {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
    this.ngClassUntouched = () => return this._cd.control ? this._cd.control.untouched : false;
    this.ngClassTouched = () => return this._cd.control ? this._cd.control.touched : false;
    this.ngClassPristine = () => return this._cd.control ? this._cd.control.pristine : false;
    this.ngClassDirty = () => return this._cd.control ? this._cd.control.dirty : false;
    this.ngClassValid = () => return this._cd.control ? this._cd.control.valid : false;
    this.ngClassInvalid = () => return this._cd.control ? this._cd.control.invalid : false;
    this.ngClassPending = () => return this._cd.control ? this._cd.control.pending : false;
  }

  ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false;
  }

  ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false;
  }

  ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false;
  }

  ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false;
  }

  ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false;
  }

  ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false;
  }

  ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false;
  }

  ngOnDestroy(): void {
    this.ngClassUntouched = null;
    this.ngClassTouched = null;
    this.ngClassPristine = null;
    this.ngClassDirty = null;
    this.ngClassValid = null;
    this.ngClassInvalid = null;
    this.ngClassPending = null;
  }
}

/**
 * @description
 * Directive automatically applies CSS classes based on control status.
 *
 * @usageNotes
 *
 * ### CSS classes applied
 *
 * The following classes are applied as the properties become true:
 *
 * * ng-untouched
 * * ng-touched
 * * ng-pristine
 * * ng-dirty
 * * ng-valid
 * * ng-invalid
 * * ng-pending
 *
 * The following classes are applied as the properties become true:
 *
 * * ng-untouched
 * * ng-touched
 * * ng-invalid
 * * ng-pending
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
  '[formControlName], [ngModel], [formControl], form:not([ngNoForm]), [ngForm]',
  host: ngControlStatusHost
})
export class NgControlStatus {
  ngOnChanges(): void {
    this.ngClassUntouched = () => return this._cd.control ? this._cd.control.untouched : false;
    this.ngClassTouched = () => return this._cd.control ? this._cd.control.touched : false;
    this.ngClassPristine = () => return this._cd.control ? this._cd.control.pristine : false;
    this.ngClassDirty = () => return this._cd.control ? this._cd.control.dirty : false;
    this.ngClassValid = () => return this._cd.control ? this._cd.control.valid : false;
    this.ngClassInvalid = () => return this._cd.control ? this._cd.control.invalid : false;
    this.ngClassPending = () => return this._cd.control ? this._cd.control.pending : false;
  }
}

/**
 * @description
 * An InjectionToken for registering additional
 */
export const NgControl = new InjectionToken('NgControl');

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 */

import {InjectionToken, ɵisObservable as isObservable, ɵisPromise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  return value == null || value.length === 0;
}

/**
 * @description
 * An InjectionToken for registering additional
 */
export const NgControl = new InjectionToken('NgControl');

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 */

import {InjectionToken, ɵisObservable as isObservable, ɵisPromise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  return value == null || value.length === 0;
}
synchronous validators used with `AbstractControl`s. In

```typescript
@Directive({
  selector: '[customValidator]
})
class CustomValidatorDirective implements
Validator { @validate(control: AbstractControl): ValidationErrors | null {
    return {'custom': true};
}}

export class Validators {
  static min(...
```
ValidationErrors | null) => {
    res = errors != null ? {...res !, ...errors} : res !;
  });

  return 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);
  }
}

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 * 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';
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.

```typescript
add(control: NgControl, accessor: RadioControlValueAccessor) {
  this._accessors.push([control, accessor]);
}
```

```typescript
remove(accessor: RadioControlValueAccessor) {
  for (let i = this._accessors.length - 1; i >= 0; --i)
    if (this._accessors[i][1] === accessor)
      this._accessors.splice(i, 1);
}
```

```typescript
select(accessor: RadioControlValueAccessor) {
  this._accessors.forEach((c) => {
    if (this._isSameGroup(c, accessor) && c[1] !== accessor)
      c[1].fireUncheck(accessor.value);
  });
}
```

```typescript
private _isSameGroup(controlPair: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor): boolean {
  if (!controlPair[0].control) return false;
  return controlPair[0].parent === accessor.control.parent &&
    controlPair[0].name === accessor.name;
}
```

The 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.

```typescript
constructor(private _renderer: Renderer2, private _elementRef: ElementRef,
            private _registry: RadioControlRegistry, private _injector: Injector) {}
```

```typescript
ngOnInit(): void {
  this._control = this._injector.get(NgControl);
  this._checkName();
  this._registry.add(this._control, this);
}
```

```typescript
ngOnDestroy(): void {
  this._registry.remove(this);
}
```

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

```typescript
registerOnChange(fn: (_: any) => {}): void {
  this._fn = fn;
  this.onChange = () => {
    fn(this.value);
    this._registry.select(this);
  };
}
```

```typescript
registerOnTouched(fn: () => {}): void {
  this.onTouched = fn;
}
```

```typescript
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

```typescript
checkName: string;
```

```typescript
getCurrentValue(): any {
  return this._registry.getCurrentValue(this);
}
```

```typescript
getValue(): any {
  return this._registry.getValue(this);
}
```

```typescript
isControlPristine(): boolean {
  return this._registry.isControlPristine(this);
}
```

```typescript
isControlValid(): boolean {
  return this._registry.isControlValid(this);
}
```

```typescript
isDisabled(): boolean {
  return this._registry.isDisabled(this);
}
```

```typescript
isTouched(): boolean {
  return this._registry.isTouched(this);
}
```

```typescript
isUntouched(): boolean {
  return this._registry.isUntouched(this);
}
```

```typescript
isErrorState(): boolean {
  return this._registry.isErrorState(this);
}
```

```typescript
isError(): boolean {
  return this._registry.isError(this);
}
```

```typescript
isTouchedOnSubmit(): boolean {
  return this._registry.isTouchedOnSubmit(this);
}
```

```typescript
isUntouchedOnSubmit(): boolean {
  return this._registry.isUntouchedOnSubmit(this);
}
```

```typescript
isPending(): boolean {
  return this._registry.isPending(this);
}
```

```typescript
isSubmitted(): boolean {
  return this._registry.isSubmitted(this);
}
```

```typescript
registerOnTouched(fn: () => {}): void {
  this.onTouched = fn;
}
```

```typescript
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

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

```typescript
registerOnTouched(fn: () => {}): void {
  this.onTouched = fn;
}
```

```typescript
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

```typescript
private _checkName(): void {
  if (this.name && this.formControlName &&
    this.name !== this.formControlName)
    this._throwNameError();
  if (!this.name && this.formControlName)
    this.name = this.formControlName;
}
```

```typescript
private _throwNameError(): void {
  throw
```
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">
` vs `<input formControlName="food" name="food" `.

The 'ControlValueAccessor' for writing a range value and listening to range input changes.

The value accessor is used by the 'FormControlDirective', 'FormControlName', and `NgModel` directives.

Using a range input with a reactive form.

The following example shows how to use a range input with a reactive form.

```ts
const ageControl = new FormControl();
```
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\n    Option 1: Update the parent to be formGroupName (reactive form strategy)

    ${{Examples.formGroupName}}\n\n    Option 2: Use ngModel instead of formControlName (template-driven strategy)

    ${{Examples.ngModelGroup}}\n\n    static ngModelGroupException(): void {
        throw new Error("formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a "form" prefix: formGroupName, formArrayName, or formGroupName. \n\n        Example:

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

        Example:

    ${{Examples.formGroupName}}\n\n    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}}\n\n    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}}\n\n    static disabledAttrWarning(): void {
        console.warn(`It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

        Example:

        form = new FormGroup({
            first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
            last: new FormControl('Drew', Validators.required)
        });
    `);
\n    static ngModelWarning(directiveName: string): void {
        console.warn(`It looks like you're using ngModel on the same form field as ${directiveName}. Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.\n\n        For more information on this, see our API docs here:\n
        https://angular.io/api/forms/${directiveName}#use-with-ngmodel

        For more information on this, see our API docs here:

        https://angular.io/api/forms/${directiveName}#use-with-ngmodel"
    `);
\n    export const SELECT_VALUE_ACCESSOR: StaticProvider = {
        provide: NG_VALUE_ACCESSOR,
        useExisting: forwardRef(() => SelectControlValueAccessor),
        multi: true
    };
new FormControl();\n * ```\n *\n * ```\n * <select [compareWith]=\"compareFn\"
[formControl]=\"selectedCountriesControl\">\n * <option *ngFor=\"let country of countries\"
[ngValue]=\"country\">\n *
{{country.name}}\n * </option>\n * </select>\n *\n * compareFn(c1: Country,
c2: Country): boolean {\n * return c1 && c2 ? c1.id === c2.id : c1 === c2;\n * }\n * ```\n *\n * **Note:** We
listen to the 'change' event because 'input' events aren't fired\n * for selects in Firefox and IE:\n *
https://bugzilla.mozilla.org/show_bug.cgi?id=1024350\n * https://developer.microsoft.com/en-us/microsoftedge/platform/issues/4660045/\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n *
@publicApi\n */\n@Directive({\n selector:\n
'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]',\n
host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},\n providers:
[SELECT_VALUE_ACCESSOR]\n})\nexport class SelectControlValueAccessor implements
ControlValueAccessor {\n value: any;\n /** @internal */\n _optionMap: Map<string, any> = new Map<string,
any>();\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 * Sets the \"value\" property on the input element. The \"selectedIndex\"\n * property is also set if an ID is
provided on the option element.\n *\n * @param value The checked value\n */\n writeValue(value: any): void
{\n this.value = value;\n const id: string|null = this._getOptionId(value);\n if (id == null) {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);\n }\n const valueString =
_buildValueString(id, value);\n this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);\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: (value: any) => any): void {\n this.onChange = (valueString:
string) => {\n
this.value = this._getOptionValue(valueString);\n
fn(this.value);\n };\n }\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: () => any): void { this.onTouched = fn; }\n\n /**\n * Sets the \"disabled\"
property on the select 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 _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:

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any) (\n  this._setElementValue(value);\n) if (this._select) this._select.writeValue(this._select.value);\n}  /**
   * Lifecycle method called before the directive’s instance is
   * destroyed. For internal use only.\n   */ ngOnDestroy(): void {\n  if (this._select) {\n    this._select.writeValue(this._select.value);\n  }\n}\n/**\n* @license
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* found in the 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_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR, useExisting: forwardRef(() => SelectMultipleControlValueAccessor), multi: true
};

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

function _extractId(valueString: string): string {
  return valueString.split(':')[0];
}

/** Mock interface for HTML Options */
interface HTMLOption {
  value: string;
  selected: boolean;
}

/**
 * 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`\n * directives.\n * 
 * @see SelectControlValueAccessor\n * 
 * @usageNotes
 * 
 * ### Using a
 * multi-select control
 * 
 * The follow example shows you how to use a multi-select control with a reactive form.

 * <select multiple
 * name="countries" 
 * [formControl]="countryControl">
 *   <option *ngFor="let country of countries">
 *     {{ country.name }}
 *   </option>
 * </select>
 * 
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',
  host:{'(change)':'onChange($event.target)', '(blur)':'onTouched()'},
  providers:[SELECT_MULTIPLE_VALUE_ACCESSOR]
})
export class SelectMultipleControlValueAccessor implements

/**
   * The current value\n   */
  value: any;

  /** @internal */
  _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map<string, ɵNgSelectMultipleOption>();
  /**
   * Tracks the option comparison algorithm for tracking identities when
   * checking for changes.\n   */
  @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;

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
    this._renderer.setProperty(this._element.nativeElement, 'value', this.value);
  }

  writeValue(value: any): void {\n    this.value = value;
    let optionSelectedStateSetter: (opt: ɵNgSelectMultipleOption, o: any) => void;
    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 {
      }
    }

    this._optionMap.forEach(optionSelectedStateSetter);
  }

  onChange: (_: any) => {};

  onTouched = () => {};

  set(): void {\n    this.value = this._select.value;
  }

  ngOnInit(): void {\n    this._setElementValue(value);\n    if (this._select) this._select.writeValue(this._select.value);\n  }

  _setElementValue(value: string): void {
    this._renderer.setProperty(this._element.nativeElement, 'value', value);
  }

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

  /**
   * @description
   * Registers a function called when the control value changes\n   * and writes an array of the
   * selected options.\n   */
  @license
  * 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
*/
void (\n 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);\n      this.value = selected;\n      fn(selected);\n    }\n  }\n});\n
this.value = selected;\nfn(selected);\n
/**\n * @description\n * Registers a function called when the control is touched.\n * @param fn The callback function\n */\nthis.writeValue(this.value);\n
/**\n * @description\n * Tracks the value bound to the option element. Unlike the value binding, ngValue supports binding to objects.\n * For objects, use the `ngValue` input binding.\n */\nthis.writeValue(value);\n
/**\n * Lifecycle method called before the directive's instance is destroyed. For internal use only.\n */\nngOnDestroy();\n\nexport class 

---

void (\n
---


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]);

  control.registerOnChange(() => {
    _noControlError(dir); // re-run validation when binding validator changes, e.g. minlength=3 -> minlength=4
  });
  control.registerOnTouched(() => _noControlError(dir));

  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());
    }
  });
}

function setUpFormContainer(control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName): void {
  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]);

  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {
    // control -> view
    dir.valueAccessor!.writeValue(newValue);

    // control -> ngModel
    if (emitModelEvent) dir.viewToModelUpdate(newValue);
  });
}
null; }\n\nexport function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean \n{ if (!changes.hasOwnProperty('model')) return false; }\n\nconst change = changes['model'];\n\nlet_builtinAccessors = [CheckboxControlValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor,\nRadioControlValueAccessor,\n\nreturn false;\n}\n\nfunction _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {\n  if (path == null) return null;\n  if (!Array.isArray(path)) {\n    path = path.split(delimiter);\n  }\n  if (Array.isArray(path) && path.length === 0) return null;\n  // Not using Array.reduce here due to a Chrome 80 bug}
controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
    controlToFind.controls[name] : null;
else if (controlToFind instanceof FormArray) {
  controlToFind = controlToFind.at(<number>name); if (null) controlToFind = null;
}

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

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.
 */

class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty!: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched!: boolean;

  /** @internal */
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn!: FormHooks;

  // TODO(issue/24571): remove '!'.
  constructor(public validator: ValidatorFn, public asyncValidator: AsyncValidatorFn) {}
has failed one or more of its validation checks. 

...
this._parent.markAsTouched(opts);  

```typescript
/**
 * Marks the control as `touched`. When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsTouched(): void {
    this.markAsTouched({onlySelf: true});

    this._forEachChild((control: AbstractControl) => control.markAsTouched());
}

/**
 * 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._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 the control's 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._forEachChild((control: AbstractControl) => control.markAsPristine({onlySelf: true}));

    if (this._parent && !opts.onlySelf) {
        this._parent._updatePristine(opts);
    }
}
```
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.
   * * `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.
   */
  enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void{
    if (this._parent && !opts.onlySelf) {
      this._parent.updateValueAndValidity(opts);
      if (!opts.skipPristineCheck) {
        this._parent._updatePristine();
      }
      this._parent._updateTouched();
    }
  }

  /**
   * Sets the parent of the control
   */
  setParent(parent: FormGroup|FormArray): void { this._parent = parent; }

  /**
   * Sets the value of the control. Abstract method (implemented in sub-classes).
   */
  abstract setValue(value: any, options?: Object): void;

  /**
   * Patches the value of the control. Abstract method (implemented in sub-classes).
   */
  abstract patchValue(value: any, options?: Object): void;

  /**
   * Resets the control. Abstract method (implemented in sub-classes).
   */
  abstract reset(value?: any, options?: Object): void;

  /**
   * Recalculates the value and validation status of the control.
   * By default, it also updates the value and validity of its ancestors.
   * * `onlySelf`: When true, only update this control. When false or not supplied (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.
   * * `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.
   * * `onlySelf`: When true, mark only this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.
   * * `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.
   */
  updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._setInitialStatus();
    this._updateValue();

    if (this.enabled) {
      this._cancelExistingSubscription();
      (this as{errors: ValidationErrors | null}).errors = this._runValidator();
      (this as{status: string}).status = this._calculateStatus();

      if (this.status === VALID || this.status === PENDING) {
        this._runAsyncValidator(opts.emitEvent);
      }
    }

    if (opts.emitEvent !== false) {
      (this.valueChanges as EventEmitter<any>).emit(this.value);
      (this.statusChanges as EventEmitter<string>).emit(this.status);
    }

    if (this._parent && !opts.onlySelf) {
      this._parent.updateValueAndValidity(opts);
    }
  }

  /**
   * Updates the value and validity of its ancestors.
   * * `onlySelf`: When true, only update this control. When false or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated.
   * * `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.
   */
  _updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}): void {
    this._forEachChild((ctrl: AbstractControl) => ctrl._updateTreeValidity(opts));
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
  }

  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));
      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
   */

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as{pristine: boolean}).pristine = !this._anyControlsDirty();\n\n if (this._parent && !opts.onlySelf) {\n
this._parent._updatePristine(opts);\n }\n }\n\n /** @internal */\n _updateTouched(opts: {onlySelf?: boolean} =
{}): void {\n (this as{touched: boolean}).touched = this._anyControlsTouched();\n\n if (this._parent &&
!opts.onlySelf) {\n
this._parent._updateTouched(opts);\n }\n }\n\n /** @internal */\n _onDisabledChange:
Function[] = [];\n\n /** @internal */\n _isBoxedValue(formState: any): boolean {\n return typeof formState ===
'object' && formState !== null &&\n
Object.keys(formState).length === 2 && 'value' in formState &&
'disabled' in formState;\n }\n\n /** @internal */\n _registerOnCollectionChange(fn: () => void): void {
this._onCollectionChange = fn; }\n\n /** @internal */\n _setUpdateStrategy(opts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {\n if (isOptionsObj(opts) && (opts as
AbstractControlOptions).updateOn != null) {\n
this._updateOn = (opts as AbstractControlOptions).updateOn !;\n
}\n }\n\n /**\n * Check to see if parent has been marked artificially dirty.\n *\n * @internal\n */\n private
_parentMarkedDirty(onlySelf?: boolean): boolean {\n const parentDirty = this._parent && this._parent.dirty;\n
return !onlySelf && parentDirty && !this._parent._anyControlsDirty();\n }\n}\n\n/**\n * Tracks the value and
validation status of an individual form control.\n *\n * This is one of the three fundamental building blocks of
Angular forms, along with\n * `FormGroup` and `FormArray`. It extends the `AbstractControl` class that\n *
implements most of the base functionality for accessing the value, validation status,\n * user interactions and
events.\n *\n * @see `AbstractControl`\n * @see [Reactive Forms Guide](guide/reactive-forms)\n * @see [Usage
Notes](#usage-notes)\n *\n * @usageNotes\n *\n * ### Initializing Form Controls\n *\n * Instantiate a
`FormControl`, with an initial value.\n *\n * ```ts\n * const control = new FormControl('some value');\n *
console.log(control.value); // 'some value'\n *```\n *\n * The following example initializes the control with a form
state object. The `value`\n * and `disabled` keys are required in this case.\n *\n * ```ts\n * const control = new
FormControl({ value: 'n/a', disabled: true });\n * console.log(control.value); // 'n/a'\n * console.log(control.status);
// 'DISABLED'\n * ```\n *\n * The following example initializes the control with a sync validator.\n *\n * ```ts\n *
const control = new FormControl('', Validators.required);\n * console.log(control.value);
// ''\n *
console.log(control.status); // 'INVALID'\n * ```\n *\n * The following example initializes the control using an
options object.\n *\n * ```ts\n * const control = new FormControl('', {\n * validators: Validators.required,\n *
asyncValidators: myAsyncValidator\n * });\n * ```\n *\n * ### Configure the control to update on a blur event\n *\n
* Set the `updateOn` option to `'blur'` to update on the blur `event`.\n *\n * ```ts\n * const control = new
FormControl('', { updateOn: 'blur' });\n * ```\n *\n * ### Configure the control to update on a submit event\n *\n *
Set the `updateOn` option to `'submit'` to update on a submit `event`.\n *\n * ```ts\n * const control = new
FormControl('', { updateOn: 'submit' });\n * ```\n *\n * ### Reset the control back to an initial value\n *\n * You
reset to a specific form state by passing through a standalone\n * value or a form state object that contains both a
value and a disabled state\n * (these are the only two properties that cannot be calculated).\n *\n * ```ts\n * const
control = new FormControl('Nancy');\n *\n * console.log(control.value); // 'Nancy'\n *\n * control.reset('Drew');\n
*\n * console.log(control.value); // 'Drew'\n * ```\n *\n * ### Reset the control back to an initial value and disabled\n
*\n * ```\n * const control = new FormControl('Nancy');\n *\n * console.log(control.value); // 'Nancy'\n *
console.log(control.status); // 'VALID'\n *\n * control.reset({ value: 'Drew', disabled: true });\n *\n *
console.log(control.value); // 'Drew'\n * console.log(control.status); // 'DISABLED'\n * ```\n *\n * @publicApi\n
*/\nexport class FormControl extends AbstractControl {\n /** @internal */\n _onChange: Function[] = [];\n\n /**
@internal */\n _pendingValue: any;\n\n /** @internal */\n _pendingChange: any;\n\n /**\n * Creates a new
`FormControl` instance.\n *\n * @param formState Initializes the control with an initial value,\n * or an object
that defines the initial value and disabled state.\n *\n * @param validatorOrOpts A synchronous validator function,
or an array of\n * such functions, or an `AbstractControlOptions` object that contains validation functions\n * and a
validation trigger.\n *\n * @param asyncValidator A single async validator or array of async validator functions\n
*\n */\n constructor(\n
formState: any = null,\n
validatorOrOpts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null) {\n super(\n
coerceToValidator(validatorOrOpts),\n
coerceToAsyncValidator(asyncValidator, validatorOrOpts));\n this._applyFormState(formState);\n

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this._setUpdateStrategy(validatorOrOpts);
this.updateValueAndValidity({onlySelf: true, emitEvent: false});
this._initObservables();
/*@*/ * Sets a new value for the form control.
/*@ */ * @param value The new value for the control.
/*@ */ * @param options Configuration options that determine how the control propagates changes
/*@ */ * and emits events when the value changes.
/*@ */ * The configuration options are passed to the `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.
/*@ */ * `emitViewToModelChange`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngModelChange` event to update the model.
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `onModelToViewChange` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `valueChanges`: When true, only the value changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `onModelToViewChange` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `formControlArrayChange`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `formControlArrayChange` event to notify the view.
/*@ */ * `expressionChanged`: When true, only the expression changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `expressionChanged` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngControlArrayChange`: When true, only the ngControlArray changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngControlArrayChange` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngModel`: When true, only the two way binding changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngModel` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngChangeDetectionCount`: When true, only the changes that are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngChangeDetectionCount` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngError`: When true, only the errors are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngError` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngCollectionChange`: When true, only the ngCollection changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngCollectionChange` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngModelCollectionChange`: When true, only the ngModelCollection changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngModelCollectionChange` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngTemplateChanges`: When true, only the ngTemplate changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngTemplateChanges` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
/*@ */ * `ngModelTemplateChanges`: When true, only the ngModelTemplate changes are
/*@ */ * * `onlySelf`: When true or not supplied (the default), each change triggers an
/*@ */ * `ngModelTemplateChanges` event to notify the view.
/*@ */ * * `ngComplete`: When true or not supplied (the default), each
/*@ */ * change triggers an
/*@ */ * `ngComplete` event to notify the view.
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`. * 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. * `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.

```typescript
const form = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new FormControl('Drew'),
});
```

```typescript
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. * `FormGroup` extends AbstractControl. * Like `FormControl` instances, you choose to pass in validators and async validators as part of an options object. * `FormGroup` extends AbstractControl.

```typescript
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

### Create a form group with 2 controls

```typescript
const form = new FormGroup({
  password: new FormControl('', Validators.minLength(2)),
  passwordConfirm: new FormControl('', Validators.minLength(2)),
}, passwordMatchValidator);
```

```typescript
function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value ===
```
Reports false for disabled controls. If you’d like to check for existence in the group only, use `{@link AbstractControl#hasOwnProperty(controlName)` instead.

* @returns false for disabled controls, true otherwise.

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}

  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.

  @param value The new value for the control that matches the structure of the group.

  * * @options Configuration options that determine how the control propagates changes

  * * and emits events after the value changes.

  * The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity` method.

  * * * `onlySelf`: When true, each change only affects this control, and not its parent. 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.

  * * setDefaultValue({key: [any], options: [onlySelf?: boolean, emitEvent?: boolean] = {}})

  };

  void {

    this._checkAllValuesPresent(value);

    Object.keys(value).forEach(name => {

      if (this.controls[name]) {

        this.controls[name].patchValue(value[name], {

          onlySelf: true,

          emitEvent: true,

          emitEvent: true

        });

      } else {

        this.throwIfControlMissing(name);

      }

    });

    this.updateValueAndValidity(options);

  };

  * * @options Configuration options that determine how the control propagates changes and emits events after the value is patched.

  * * * `onlySelf`: When true, each change only affects this control and not its parent. Default is true.

  * * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

  * When false, no events are emitted.

  * The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity` method.

  * * `onlySelf`: When true, each change only affects this control, and not its parent. Default is true.

  * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

  * When false, no events are emitted.

  * The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity` method.

  * * `onlySelf`: When true, each change only affects this control, and not its parent. Default is true.

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  * When false, no events are emitted.

  * 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 true.

  * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

  * When false, no events are emitted.

  * The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity` method.

  * * `onlySelf`: When true, each change only affects this control, and not its parent. Default is true.

  * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

  * When false, no events are emitted.

  * The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity` method.

  * * `onlySelf`: When true, each change only affects this control, and not its parent. Default is true.

  * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

  * When false, no events are emitted.

  * The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity` method.

  * * `onlySelf`: When true, each change only affects this control, and not its parent. Default is true.

  * * `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.
The `FormArray` is a fundamental building block used to define forms in Angular, along with `FormControl` and `FormGroup`. It is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormGroup`.

`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 `FormArray` is invalid if any of its children are invalid. If all children are valid, the `FormArray` is valid.

### Create a form array

```typescript
const arr = new FormArray([
  new FormControl('Nancy'),
  new FormControl('Drew'),
]);
```

### Create an array of form controls

```typescript
const arr = new FormArray([new FormControl('Nancy'),
  new FormControl('Drew'),
]);
```
FormControl('Drew')
  * 
  
  * ```
  *
  
  * ### Set the updateOn property for all controls in a form array
  * The options object is used to set a default value for each control's `updateOn` property. If you set `updateOn` to `blur` at the array level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.
  
  * ```ts
  * const arr = new FormArray([], new FormControl({ updateOn: 'blur' }));
  * ```
  *
  * # Adding or removing controls from a form array
  * To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `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
  * arr.setValue([], {onlySelf: true, emitEvent: false});
  * ```
  *
  * # FormArray
  * ```
  * ```
void {\n    \n    \n}:

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 value of the `FormArray`. It accepts an array that matches the
   * structure of the control, and does its best to match the values
   * to the correct * controls in the group.
   * It accepts both super-sets and sub-sets of the array without
   * throwing an error.
   * @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
   * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
   * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges`
   * observables emit events with the latest status and value when the control value is updated.
   * When false, no events are emitted.
   * The configuration options are passed to the `[@link AbstractControl#updateValueAndValidity updateValueAndValidity]` method.
   */
  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);
  }

  /**
   * Resets the `FormArray` and all descendants are marked `pristine` and `untouched`, and the
   * value of all descendants to null or null maps.
   * @param value Array of values for the controls
   * @param options Configure options that determine how the control propagates changes and emits events after the value changes
   * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
   * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges`
   * observables emit events with the latest status and value when the control is reset.
   * When false, no events are emitted.
   * The configuration options are passed to the `[@link AbstractControl#updateValueAndValidity updateValueAndValidity]` method.
   */
  reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._forEachChild((control: AbstractControl, index: number) => {
      control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
  }

  /**
   * @internal
   */
  _syncPendingControls():
```typescript
boolean {\n  let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {\n    return child._syncPendingControls() ? true : updated;\n  }, false);\n  if (subtreeUpdated)\n    this.updateValueAndValidity({onlySelf: true});\n  return subtreeUpdated;\n} //\n
/** @internal */\n_throwIfControlMissing(index: number): void {\n  if (!this.controls.length) {\n    throw new Error('Cannot find form control at index $\{index\}$');\n  }\n  if (!this.at(index)) {\n    throw new Error(`Cannot find form control at index: ${i}.`);\n  }\n}

/** @internal */\n_forEachChild(cb: Function): void {\n  this.controls.forEach((control: AbstractControl, index: number) => { cb(control, index); });\n}

/** @internal */\n_allControlsDisabled(): boolean {\n  for (const control of this.controls) {\n    if (control.enabled) return false;\n  }\n  return this.controls.length > 0;\n}

private _registerControl(control: AbstractControl) {\n  control.setParent(this);\n  control._registerOnCollectionChange(this._onCollectionChange);\n}
```

---

**Public组建**

```typescript
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.
 *
 * You optionally export the directive into a local template variable using `ngForm` as the key (ex: `#myForm="ngForm"`). This is optional, but useful. Many properties from the underlying `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.
 *
 * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive.
 *
 * `NgModelGroup` 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. 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.
 *
 * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, you can for example, use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive.
 *
 * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, you can for example, use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive.
 *
 * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, you can for example, use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive.
 ```
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:

```html
<form ngNativeValidate>
  ...
</form>
```

If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element:

```html
<form ngNativeValidate>
  ...
</form>
```

* The `FormGroup` instance created for this form.
  * `@publicApi` * @Directive({`@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:

```html
<form ngNativeValidate>
  ...
</form>
```
instance.\n * @param value The new value for the directive's control.\n */\n updateModel(dir: NgControl, value:
any): void {\n resolvedPromise.then(() => {\n
const ctrl = <FormControl>this.form.get(dir.path !);\n
ctrl.setValue(value);\n });\n }\n\n /**\n * @description\n * Sets the value for this `FormGroup`.\n *\n *
@param value The new value\n */\n setValue(value: {[key: string]: any}): void { this.control.setValue(value);
}\n\n /**\n * @description\n * Method called when the \"submit\" event is triggered on the form.\n * Triggers
the `ngSubmit` emitter to emit the \"submit\" event as its payload.\n *\n * @param $event The \"submit\" event
object\n */\n onSubmit($event: Event): boolean {\n (this as{submitted: boolean}).submitted = true;\n
syncPendingControls(this.form, this._directives);\n this.ngSubmit.emit($event);\n return false;\n }\n\n /**\n *
@description\n * Method called when the \"reset\" event is triggered on the form.\n */\n onReset(): void {
this.resetForm(); }\n\n /**\n * @description\n * Resets the form to an initial value and resets its submitted
status.\n *\n * @param value The new value for the form.\n */\n resetForm(value: any = undefined): void {\n
this.form.reset(value);\n (this as{submitted: boolean}).submitted = false;\n }\n\n private _setUpdateStrategy() {\n
if (this.options && this.options.updateOn != null) {\n
this.form._updateOn = this.options.updateOn;\n }\n
}\n\n /** @internal */\n _findContainer(path: string[]): FormGroup {\n path.pop();\n return path.length ?
<FormGroup>this.form.get(path) : this.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 {OnDestroy, OnInit} from '@angular/core';\n\nimport
{FormGroup} from '../model';\n\nimport {ControlContainer} from './control_container';\nimport {Form} from
'./form_interface';\nimport {composeAsyncValidators, composeValidators, controlPath} from './shared';\nimport
{AsyncValidatorFn, ValidatorFn} from './validators';\n\n\n\n/**\n * @description\n * A base class for code shared
between the `NgModelGroup` and `FormGroupName` directives.\n *\n * @publicApi\n */\nexport class
AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {\n /**\n * @description\n
* The parent control for the group\n *\n * @internal\n */\n // TODO(issue/24571): remove '!'.\n _parent !:
ControlContainer;\n\n /**\n * @description\n * An array of synchronous validators for the group\n *\n *
@internal\n */\n // TODO(issue/24571): remove '!'.\n _validators !: any[];\n\n /**\n * @description\n * An
array of async validators for the group\n *\n * @internal\n */\n // TODO(issue/24571): remove '!'.\n
_asyncValidators !: any[];\n\n /**\n * @description\n * An internal callback method triggered on the instance
after the inputs are set.\n * Registers the group with its parent group.\n */\n ngOnInit(): void {\n
this._checkParentType();\n this.formDirective !.addFormGroup(this);\n }\n\n /**\n * @description\n * An
internal callback method triggered before the instance is destroyed.\n * Removes the group from its parent group.\n
*/\n ngOnDestroy(): void {\n if (this.formDirective) {\n
this.formDirective.removeFormGroup(this);\n }\n
}\n\n /**\n * @description\n * The `FormGroup` bound to this directive.\n */\n get control(): FormGroup {
return this.formDirective !.getFormGroup(this); }\n\n /**\n * @description\n * The path to this group from the
top-level directive.\n */\n get path(): string[] {\n return controlPath(this.name == null ? this.name :
this.name.toString(), this._parent);\n }\n\n /**\n * @description\n * The top-level directive for this group if
present, otherwise null.\n */\n get formDirective(): Form|null { return this._parent ? this._parent.formDirective :
null; }\n\n /**\n * @description\n * The synchronous validators registered with this group.\n */\n get
validator(): ValidatorFn|null { return composeValidators(this._validators); }\n\n /**\n * @description\n * The
async validators registered with this group.\n */\n get asyncValidator(): AsyncValidatorFn|null {\n return
composeAsyncValidators(this._asyncValidators);\n }\n\n /** @internal */\n _checkParentType(): void
{}\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 {FormErrorExamples as Examples} from './error_examples';\n\nexport class TemplateDrivenErrors {\n
static modelParentException(): void {\n 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
${Examples.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
${Examples.ngModelWithFormGroup}`);\n }\n\n static formGroupNameException(): void {\n throw new

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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}]
```

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 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.

    Option 1: Use formControlName instead of ngModel (reactive strategy):

    ${Examples.formGroupName}

    Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

    ${Examples.ngModelGroup}`);
}
```

```

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.

    Option 1: Use formControlName instead of ngModel (reactive strategy):

    ${Examples.formGroupName}

    Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

    ${Examples.ngModelGroup}`);
```

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

import {ControlContainer} from './control_container';
import {NgModelGroup} from './ng_model_group';
import {NgForm} from './ng_form';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormControl, FormHooks} from '../model';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {FormControlDirective} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {NgModel} from './ng_model';
import {NgModelGroup} from './ng_model_group';
import {FormControl, FormGroup, FormError} from './interfaces';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {VerifyError} from './verify_error';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormControl, FormGroup, FormError} from './interfaces';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {VerifyError} from './verify_error';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormError} from './form_error';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormControl, FormGroup, FormError} from './interfaces';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {VerifyError} from './verify_error';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormError} from './form_error';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormError} from './form_error';
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import {FormError} from './form_error';
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import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormError} from './form_error';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormError} from './form_error';
import {AbstractFormGroupDirective} from './abstract_form_group direktive'}

```
formControlBinding: any = { 
  provide: NgControl,
  useExisting: forwardRef(() => NgModel)
};

/**
 * `ngModel` forces an additional change detection run when its inputs change: 
 * E.g.: 
 * <div * 
 * <div>
 * <input [(ngModel)]="\"myValue\"" #myModel="\"ngModel\"">
 * 
 * `ngModel` can export itself on the element and then be used in the template. 
 * Normally, this would result in expressions before the `input` that use the exported 
 * directiveln * to have and old value as they have beenln * dirty 
 * checked before. As this is a very common case for `ngModel`, we added this second change
 * * detection run. 
 * * Notes:ln * - this is just one extra run no matter how many `ngModel` have been changed:ln * - this is a general 
 * problem when using `exportAs` for directives:ln * (Anconst resolvedPromise = () =>
 * Promise.resolve(null))();
 * @description
 * * Creates a `FormControl` instance from a domain model and binds it
 * * to a form control element. The `FormControl` instance tracks the value, user interaction, and 
 * * validation status of the control and keeps the view synced with the model. If used in 
 * * within a parent form, the directive also registers itself with the form as a child
 * * control. 
 * * This directive is used by itself or as part of a larger form. Use 
 * * `ngModel` selector to activate it. 
 * * It accepts a domain model as an optional `Input`. If you have a one-way binding 
 * * to `ngModel` with `[]` syntax, changing the value of the domain model in the 
 * component * class sets the value in the view. If you have a two-way binding with 
 * * `[()]` syntax in * (also known as `banana-box syntax`), the value in the UI always syncs back to
 * * the domain model in your class. 
 * * To inspect the properties of the associated `FormControl` (like validity state), * export the directive into a local 
 * template variable using `ngModel` as the key (ex: `#myVar="\"ngModel\""`). You then access the control using 
 * the directive’s `control` property, but most properties used (like `valid` and `dirty`) fall through to the control 
 * anyway for direct access. 
 * * See a full list of properties directly available in `AbstractControlDirective`. 
 * * @see `RadioControlValueAccessor` 
 * * @see `SelectControlValueAccessor`
 * * @usageNotes
 * * ### Using ngModel on a standalone control
 * * The following examples show a simple standalone control using 
 * `ngModel`:
 * * ```html
 * * <input [ngModel]="user"> 
 * * ```
 * * When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute in
 * * so that the control can be registered with the parent form under that name. 
 * * In the context of a parent form, it's often unnecessary to include one-way or two-way binding, 
 * * as the parent form syncs the value for you. You access its properties by exporting it into a
 * * local template variable using `ngForm` such as (`#f="\"ngForm\""`). Use the 
 * * variable where needed on form submission. 
 * * * If you do need to populate initial values into your form, 
 * * using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported value's 
 * * rather than the domain model's value on submit. 
 * * * Using ngModel within a form
 * * The following example shows controls using `ngModel` within a form:
 * * ```html
 * * <form>
 * *   <input [ngModel]="user"> 
 * * </form>
 * * <!-- form value: {user: ''} -->
 * * ```
 * * ### Using a standalone ngModel 
 * * 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>
 * *   <ngModel [options]="\"\"">
 * *   </ngModel>
 * * </form>
 * * <!-- form value: FormControl { McCart: \"\" } -->
 * * ```
 * * Setting the ngModel name attribute through options
 * * The following example shows you an alternate way to set the name attribute. 
 * * The name attribute is used within a custom form component, and the 
 * name `@Input` property serves a different purpose. 
 * * ```html
 * * <ngModel [options]="\"\"">
 * * </ngModel>
 * * ```
 * * ```html
 * * <ngModel [name="\"\""> 
 * * </ngModel>
 * * ```
 * * The following example shows you the compiler that values of type `\"\"` can also be assigned
 * * to the input in a template. 
 * * ```html
 * * /** @nocdoc 
 * * static
```typescript
private _setUpStandalone(): void {
  setUpControl(this.control, this);
}

private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkParentType();
  }

  this._checkName();
}

private _checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup) &&
      this._parent instanceof AbstractFormGroupDirective) {
    TemplateDrivenErrors.formGroupNameException();
  } else if (this._parent instanceof NgModelGroup) {
    this._checkParentName();
  } else if (this.options && this.options.name) {
    this.name = this.options.name;
  }
}

private _updateValue(value: any): void {
  resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}

private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes['isDisabled'].currentValue;

  const isDisabled = disabledValue === '' ||
    (disabledValue && disabledValue !== 'false');

  resolvedPromise.then(() => {
    if (isDisabled && !this.control.disabled) {
      this.control.disable();
    } else if (!isDisabled && this.control.disabled) {
      this.control.enable();
    }
  });
}

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 */

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,
  useClass:
    forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```
 * {@example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}
 * ```
 *
 * ### Use with `ngModel` and `formControlName`
 *
 * Support for using the `ngModel` input property and `formControlName` event with reactive `form` directives has been deprecated in Angular v6 and will be removed in a future version of Angular. 
 * 
 * Now deprecated:
 * ```
 * <input [formControl]='control' [formControlName]='Component'>
 * ```
 *
 * Use with ngModelIn
 * ```
 * <input [ngModelIn]='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.

```
@Directive({selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm'})

export class FormControlDirective extends NgControl implements OnChanges {
  viewModel: any;

  form !: FormControl;

  @Input('disabled')
  set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }

  constructor(@Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
              @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
              @Optional() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
              @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {
    super();
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState !(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
    }
  }

  get path(): string[] { return []; }

  valueAccessor = selectValueAccessor(this, valueAccessors);
}
```

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:
```
@NgModule({
  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]'});
```

FormControlDirective extends NgControl implements OnChanges {
```
`ngModel` value
* ** An viewModel: any
* ** An @ngQueue reactiveFormsModule
* ** An @publicAp
* ** An@Directive([selector: 'formControl'], providers: [FormControlBinding], exportAs: 'ngForm']
```

FormControlDirective extends NgControl implements OnChanges {
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```
*Synchronous validator function composed of all the synchronous validators registered with this directive.*

```
composeValidators(this._rawValidators);
```

* Async validator function composed of all the async validators registered with this directive.

```
asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}
```

* The `FormControl` bound to this directive.

```
control(): FormControl { return this.form; }
```

* Sets the new value for the view model and emits an `ngModelChange` event.

```
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}
```

* The `FormGroup` bound to this directive.

```
get control(): FormGroup { return this.form; }
```

* Returns an array representing the path to this group. Because this directive always lives at the top level of a form, it always an empty array.

```typescript
get path(): string[] { return [];
}
```
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/**
 * @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 = any = this.form.get(dir.path);
  setUpControl(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
  this.directives.push(dir);
  return ctrl;
}

/**
 * @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.
 */
@GetControl(dir: FormControlName): FormControl {
  return <FormControl>this.form.get(dir.path);
}

/**
 * @description
 * Removes the 'FormControlName' instance from the internal list of directives.
 */
@RemoveControl(dir: FormControlName): void {
  removeDir<FormControlName>(this.directives, dir);
}

/**
 * @description
 * Adds a new 'FormGroupName' directive instance to the form.
 */
@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.
 */
@RemoveFormGroup(dir: FormGroupName): void {}

/**
 * @description
 * Retrieves the 'FormGroup' for a provided 'FormGroupName' directive instance.
 */
@GetFormGroup(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

/**
 * @description
 * Removes the 'FormArrayName' instance from the internal list of directives.
 */
@RemoveFormArray(dir: FormArrayName): void {
  removeDir<FormArrayName>(this.directives, dir);
}

/**
 * @description
 * Retrieves the 'FormArray' for a provided 'FormArrayName' directive instance.
 */
@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);
}

/**
 * @description
 * Method called with the 'submit' event is triggered on the form.
 * Triggers the 'ngSubmit' emitter to emit the 'submit' event
 * as its payload.
 */
@OnSubmit($event: Event): boolean {
  (this as {submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);
  this.ngSubmit.emit($event);
  return false;
}

/**
 * @description
 * Method called when the 'reset' event is triggered on the form.
 * Resets the form to an initial value and resets its submitted status.
 */
@OnReset(): void {
  this.resetForm();
}

/**
 * Resets the form to an initial value and resets its submitted status.
 */
@ResetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}

/**
 * @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.
 */
@UpdateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl)
        setUpControl(newCtrl, dir);
    }
  });
  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!]);
}

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!]);
private _checkFormPresent() {
  if (!this.form)
    ReactiveErrors.missingFormException();
}

private _updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl)
        setUpControl(newCtrl, dir);
    }
  });
  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!]);
}

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!]);
private _checkFormPresent() {
  if (!this.form)
    ReactiveErrors.missingFormException();
}

private _updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl)
        setUpControl(newCtrl, dir);
    }
  });
  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!]);
}

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!]);
private _checkFormPresent() {
  if (!this.form)
    ReactiveErrors.missingFormException();
}
OnInit, Optional, Self, SkipSelf, forwardRef) from '@angular/core';

import {FormGroupNameProvider: any = {null: !Array, @host() @skipSelf@construct(name) = null

export const formGroupNameProvider: any = {
  provide: ControlContainer
  useExisting: forwardRef(() => FormGroupNameName);

  /** @description
   * 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[];

    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.groupParentException();
    }
  }

  export const formArrayNameProvider: any = {
    provide: ControlContainer
    useExisting: forwardRef(() => FormArrayName);

    /** @description
     * Tracks the name of the `FormArray` bound to the directive. The name corresponds
     * to a key in the parent `FormGroup` or `FormArray`. * It accepts the name string of the nested `FormGroup` to link, and
     * looks for a `FormGroup` registered with that name in the parent
     * instance you passed into `FormGroupDirective`.
     */
    // TODO(issue/24571): remove '!'.
    @Input('formArrayName') name !: string | number | null

    constructor(
      @optional() @host() @skipSelf@parent: ControlContainer,
      @optional() @self() @inject(NgValidator) validators: any[];
      @optional() @self() @inject(NgAsyncValidator) asyncValidators: any[];

      super();
      this._parent = parent;
      this._validators = validators;
      this._asyncValidators = asyncValidators;
    }

    /** @internal */
    _checkParentType(): void {
      if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.groupParentException();
      }
    }

    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`. * It accepts the name string of the nested `FormGroup` to link, and
     * looks for a `FormGroup` registered with that name in the parent
     * instance you passed into `FormGroupDirective`.
     */
    // TODO(issue/24571): remove '!'.
    @Input('formArrayName') name !: string | number | null

    constructor(
      @optional() @host() @skipSelf@parent: ControlContainer,
      @optional() @self() @inject(NgValidator) validators: any[];
      @optional() @self() @inject(NgAsyncValidator) asyncValidators: any[];

      super();
      this._parent = parent;
      this._validators = validators;
      this._asyncValidators = asyncValidators;
    }
approximates (some of) its behavior. Specifically, it allows getting/setting the value
* and intercepting value
* changes. 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 within
* reactive form directives (and get/set values using reactive
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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:

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* mode. You can choose to silence this warning by providing a config for
* 'ReactiveFormsModule' at import time:

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* 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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* reactive form directives (and get/set values using reactive
* forms patterns) or switch over to
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* 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.

* 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.
Lifecyle method called before the directive's instance is destroyed. For internal use only.

```typescript
/**
 * @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);
}
```

For internal use only.

```typescript
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed.
 */
ngOnDestroy(): void {
  if (this.formDirective) {
    this.formDirective.removeControl(this);
  }
}
```

Syncronous validator function composed of all the synchronous validators registered with this directive.

```typescript
/**
 * @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.
 */
path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent!);
}
```

An interface implemented by classes that perform synchronous validation.

```typescript
ValidatorFn|null { return composeValidators(this._rawValidators); }!
```

Syncronous validator function composed of all the async validators registered with this\n
```typescript
AsyncValidatorFn { return composeAsyncValidators(this._rawAsyncValidators); }!
```

NG_VALIDATORS, Validators) from './validators';

```typescript
* @description
* Defines the map of errors returned from failed validation checks.
*
* @publicApi
*/
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes that perform synchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a new
 * validator directive with a custom error key.
 *
 * ```typescript
 * @Directive({
 *   selector: '[customValidator]',
 *   providers: [{provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}]
 * })
 * class CustomValidatorDirective implements Validator {
 *   validate(control: AbstractControl): ValidationErrors|null {
 *     return {custom: true};
 *   }
 * }
 * ```
 *
 * @publicApi
*/
export interface Validator {
  /**
   * @description
   * Method that performs synchronous validation against the provided control.
   * @param control The control to validate against.
   * @returns A map of validation errors if validation fails, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null;

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void;
}

An interface implemented by classes that perform asynchronous validation.

```typescript
* @description
* Provides a custom async validator directive with a custom error key.
* The following example implements the `AsyncValidator` interface to create an
* async validator directive with a custom error key.
* ```typescript
* @Directive({
*   selector: '[customAsyncValidator]',
*   providers: [{provide: NG_ASYNC_VALIDATORS, useExisting: CustomAsyncValidatorDirective, multi: true}]
* })
* class CustomAsyncValidatorDirective implements AsyncValidator {
*   validate(control: AbstractControl): ValidationErrors|null {
*     return observableOf({'custom': true});
*   }
* }
* ```
*
* @publicApi
*/
export interface AsyncValidator extends Validator {
  /**
   * @description
   * Method that performs async validation against the provided control.
   * @param control The control to validate against.
   * @returns A promise or observable that resolves a map of validation errors if validation fails, otherwise null.
   */
  validate(control: AbstractControl): Promise<ValidationErrors|null>;
```
AbstractControl): Observable<ValidationErrors|null>;

/**
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 * @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.
 * @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 ReactiveFormsModule
 */
@Directive({
  selector:
  ':not([type=checkbox])[required]
  [formControlName],
  input[type=checkbox][required][formControlName],
  input[type=checkbox][ngModel],
})
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;
  }
}

/**
 * @description
 * Provider which adds `EmailValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const EMAIL_VALIDATOR: any = {
  providers: [EMAIL_VALIDATOR],
  useExisting: forwardRef(() => EmailValidator),
};

/**
 * 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 ReactiveFormsModule
 */
@Directive({
  selector:
  '[email][formControlName],
  email[[formControlName],
  email[ngModel]],
})
export class EmailValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _enabled !: 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.enabled ? Validators.required(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}

/**
 * @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
};

/**
 * StaticProvider = {
 *  useExisting: forwardRef(() => RequiredValidator),
 *  multi: true
 * };
 * @description
 * A provider which adds `RequiredValidator` 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
};

/**
 * @description
 * Provider which adds `EmailValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const EMAIL_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => EmailValidator),
  multi: true
};

/**
 * StaticProvider = {
 *  useExisting: forwardRef(() => RequiredValidator),
 *  multi: true
 * };
 * @description
 * A provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * 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
};

/**
 * @description
 * Provider which adds `EmailValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const EMAIL_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => EmailValidator),
  multi: true
};

/**
 * StaticProvider = {
 *  useExisting: forwardRef(() => RequiredValidator),
 *  multi: true
 * };
 * @description
 * A provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * 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
};
```typescript
/**
 * @description
 * Tracks changes to the email attribute bound to this directive.
 */
@Input()
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
  if (this._onChange) this._onChange();
}

/**
 * @description
 * Method that validates whether an email address is valid.
 * Returns the validation result if enabled, otherwise null.
 */
@Output() emailChange = new Event<void>();

validate(control: AbstractControl): ValidationErrors|null {
  return this._enabled ? Validators.email(control) : null;
}

registerOnValidatorChange(fn: () => void) {
  this._onChange = fn;
}

/**
 * @description
 * A function that validates a max length constraint and returns a map of
 * validation errors if present, otherwise null.
 */
validate(control: AbstractControl): ValidationErrors|null {
  return this._enabled ? Validators.maxLength(control) : null;
}

registerOnValidatorChange(fn: () => void) {
  this._onChange = fn;
}

validate(control: AbstractControl): ValidationErrors|null {
  return this._enabled ? Validators.minLength(control) : null;
}

registerOnValidatorChange(fn: () => void) {
  this._onChange = fn;
}
```

ValidatorFn
`// TODO(issue/24571): remove '!
private _onChange!: () => void;

/*
@description
* Tracks changes to the maximum length bound to this directive.
*/

ngOnChanges(changes: SimpleChanges): void {
  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.
 */

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
 */

validate(control: AbstractControl): ValidationErrors|null {
  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
 */

registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}

private _createValidator(): void {
  this._validator =
    Validators.maxLength(
        typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
}

/**
 * @description
 * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true
};

/**
 * @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 maximum length bound to this directive.
   */
  // TODO(issue/24571): remove '!
  @Input() maxlength!: string | number;

  /**
   * @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 (maxlength 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._onChange = fn;
}

private _createValidator(): void {
  this._validator =
    Validators.pattern(this.pattern); }

/**
 * @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 {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 {NgControlValueAccessor} from './directives/ng_control_value_accessor';
import {NgForm} from './directives/ng_form';
import {NgModel} from './directives/ng_model';
import {NgNoValidate} from './directives/ng_no_validate.directive';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {FormControlName} from './directives/reactive_directives/form_control_name';
import {FormGroupName} from './directives/reactive_directives/form_group_name';
import {FormArrayName} from './directives/reactive_directives/form_group_directive';
import {FormArrayName} from './directives/reactive_directives/form_group_directive';
`//directives/reactive_directives/form_group_name';
import {NgSelectOption, SelectControlValueAccessor} from
`//directives/select_control_value_accessor';
import {NgSelectMultipleOption,
SelectMultipleControlValueAccessor} from '//'directives/select_multiple_control_value_accessor';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator,
RequiredValidator} from '//'directives/validators';
export [ControlValueAccessor] from
`//directives/checkbox_value_accessor';
export [DefaultValueAccessor] from
`//directives/default_value_accessor';
export [NgControlStatusGroup] from '//'directives/ng_control_status';
export [NgForm] from
`//directives/ng_form';
export [NgModel] from '//'directives/ng_model';
export [NgModelGroup] from
`//directives/ng_model_group';
export [NumberValueAccessor] from '//'directives/number_value_accessor';
export [RadioControlValueAccessor] from '//'directives/radio_control_value_accessor';
export [RangeValueAccessor] from
`//directives/range_value_accessor';
export [FormControlDirective,
NG_MODEL_WITH_FORM_CONTROL_WARNING] from
`//directives/reactive_directives/form_control_directive';
export {FormControlName} from
`//directives/reactive_directives/form_control_name';
export [FormGroupDirective] from
`//directives/reactive_directives/form_group_directive';
export {FormGroupName} from
`//directives/reactive_directives/form_group_name';
export [NgSelectOption, SelectControlValueAccessor] from
`//directives/select_control_value_accessor';
export [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 [NgControlStatus, NgControlStatusGroup] from '//'directives/ng_control_status';
export [NgForm] from
`//directives/ng_form';
export [NgModel] from '//'directives/ng_model';
export [NgModelGroup] from
`//directives/ng_model_group';
export [NumberValueAccessor] from '//'directives/number_value_accessor';
export [RadioControlValueAccessor] from '//'directives/radio_control_value_accessor';
export [RangeValueAccessor] from
`//directives/range_value_accessor';
export [FormControlDirective,
NG_MODEL_WITH_FORM_CONTROL_WARNING] from
`//directives/reactive_directives/form_control_directive';
export {FormControlName} from
`//directives/reactive_directives/form_control_name';
export [FormGroupDirective] from
`//directives/reactive_directives/form_group_directive';
export {FormGroupName} from
`//directives/reactive_directives/form_group_name';
export [NgSelectOption, SelectControlValueAccessor] from
`//directives/select_control_value_accessor';
export [NgSelectMultipleOption,
SelectMultipleControlValueAccessor] from './directives/select_multiple_control_value_accessor';

export const
SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  NgControlStatusGroup,
  NgModelGroup,
  NgModel,
  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,
];

/**
 * @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 form structures.
 *
 * @see [Reactive Forms Guide](https://angular.io/guide/reactive-forms)
 * @publicApi
 */
@Injectable()
export class FormBuilder {

  /**
   * @description
   * Construct a new `FormGroup` instance.
   * 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 form structures.
   * The key for each child is the name under which it is registered. The object can have two shapes:
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous validator function, or an array of validator functions
   */
  constructor(private readonly ngModule: NgModule, private readonly ngModuleFactory: NgModuleFactory<NgModule>, private readonly ngModuleFactoryOptions: NgModuleFactoryOptions, private readonly ngModuleRef: NgModuleRef<NgModule>) {

    // Internal module used for sharing directives between FormsModule and ReactiveFormsModule
    *An@NgModulelet({
    declarations: SHARED_FORM_DIRECTIVES,
    exports: [
      SHARED_FORM_DIRECTIVES,
    ]})
    @export class InternalFormsSharedModule {
      *An@NgModule({
    declarations: SHARED_FORM_DIRECTIVES,
    exports: [
      SHARED_FORM_DIRECTIVES,
    ]})
    @export const InternalFormsSharedModule as InternalFormsSharedModule = new InternalFormsSharedModule
    */

    // 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
    *An@import({
    AsyncValidatorFn, ValidatorFn
  })
  @injectable()
  @class FormBuilder {

    /**
     * @description
     * Construct a new `FormGroup` instance.
     */
    @param controlsConfig: any, options: any, updateOn: (options: any)
    @constructor
    */
    @export
    public buildForm(controlsConfig: any, options: any, updateOn: any) {
      return
    }
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 of `controlsConfig: [{key: string: any}]
   * in options: `AbstractControlOptions: [{key: string: any}]

   * `FormGroup: {\n   * 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, (asyncValidators, updateOn, validators));
   * }\n   * /**
   * * @description
   * Construct a new `FormControl` with the given state, validators and options.
   * * @param formState Initializes the control with an initial state value, or an object that contains both a value and a disabled status.
   * * @param validators 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 validators.
   * * @param formConfig A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
   * * @param controlOrOpts A single async validator or array of async validators.
   * * @param validators A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
   * */
   * return new FormControl(formState, validators, asyncValidators, asyncValidatorOrOpts);

   * return new FormArray(controlOrOpts);
}

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');
import {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES} from './directives';

import {RadioControlRegistry} from './directives/radio_control_value_accessor';
import {FormBuilder} from './form_builder';

/**
 * Exports the required providers and directives for template-driven forms,
 * making them available for import by NgModules that import this module.
 *
 * @see 
 * @publicApi
 */
@NgModule({
  declarations: TEMPLATE_DRIVEN_DIRECTIVES,
  providers: [RadioControlRegistry],
  exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]
})
export class FormsModule {
}

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 *
 * @see 
 * @publicApi
 */
@NgModule({
  declarations: [REACTIVE_DRIVEN_DIRECTIVES],
  providers: [FormBuilder, RadioControlRegistry],
  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {
  /**
   * @description
   *
   * Provides options for configuring the reactive forms module.
   *
   * @param opts An object of configuration options
   * * `warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel`
   * binding is used with reactive form directives.
   */
  static withConfig(opts: {
    /** @deprecated as of v6 */
    warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders<ReactiveFormsModule> {
    return {
      ngModule: ReactiveFormsModule,
      providers: [{
        provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
        useValue: opts.warnOnNgModelWithFormControl
      }]
    };
  }
}

/**
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 *
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 * found in the LICENSE file at https://angular.io/license
 * @module
 * @description
 * This module is used for handling user input, by defining and building a
 * `FormGroup` that consists of `FormControl` objects, and mapping them onto the DOM. `FormControl`
 * objects can then be used to read information from the form DOM elements.
 * Forms providers are not included in default providers; you must import these providers
 * explicitly.
 */

export {ɵInternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from './directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlContainer} from './directives/control_container';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/default_value_accessor';
export {Form} from './directives/form_interface';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {ɵNgNoValidate} from './directives/ng_no_validate_directive';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {AsyncValidator, AsyncValidatorFn, CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
export {FormBuilder} from './form_builder';
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js.map

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

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/**
 * @license Angular v9.0.7
 * (c) 2010-2020
 * Google LLC. https://angular.io/
 * License: MIT
 */

(function (global, factory) {
    typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports, require('@angular/core'), require('@angular/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';

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INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OR CONDITIONS OF TITLE, FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR NON-INFRINGEMENT. See the Apache Version 2.0 License for specific language governing permissions and limitations under the License.
function CheckboxControlValueAccessor(_renderer, _elementRef) {
    this._renderer = _renderer;
    this._elementRef = _elementRef;
    /** * @description * The registered callback function called when a change 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 () { };
    /** * Sets the "checked" property on the input element.
     */
    this.writeValue = function (value) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
    };
    /** * Registers a function called when the control value changes. * @param fn The callback function
     */
    this.registerOnChange = function (fn) {
        this.onChange = fn;
    };
    /** * Registers a function called when the control is touched. * @param fn The callback function
     */
    this.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };
    CheckboxControlValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };
    CheckboxControlValueAccessor.prototype.writeValue = function (value) {
        var normalizedValue = value == null ? '' : value;
        this._renderer.setProperty(this._elementRef.nativeElement, 'checked', normalizedValue);
    };
    CheckboxControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };
    CheckboxControlValueAccessor = __decorate([
        core.Directive({
            selector: 'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',
            host: { '(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()' },
            providers: [CHECKBOX_VALUE_ACCESSOR]
        }),
        __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])
    ], CheckboxControlValueAccessor);
    return CheckboxControlValueAccessor;
};

var DEFAULT_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return DefaultValueAccessor; }),
    multi: true
};

var COMPOSITION_BUFFER_MODE = new core.InjectionToken('CompositionEventMode');

function _isAndroid() {
    var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';
    return /android (\d+)/.test(userAgent.toLowerCase());
}

function _isAndroid() {
    var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';
    return /android (\d+)/.test(userAgent.toLowerCase());
}

function _isAndroid() {
    var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';
    return /android (\d+)/.test(userAgent.toLowerCase());
}

function _isAndroid() {
    var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';
    return /android (\d+)/.test(userAgent.toLowerCase());
}

function _isAndroid() {
    var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';
    return /android (\d+)/.test(userAgent.toLowerCase());
}

function _isAndroid() {
    var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';
    return /android (\d+)/.test(userAgent.toLowerCase());
}
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
 */
 * @description
 * Registers a function called when the control value changes.
 * @param fn The callback function
 */
 DefaultValueAccessor.prototype.registerOnChange = function (fn) {
    this.onChange = fn;
 };
 /**
 * @description
 * Registers a function called when the control is touched.
 * @param fn The callback function
 */
 DefaultValueAccessor.prototype.registerOnTouched = function (fn) {
    this.onTouched = fn;
 }
 /* */
 @internal *
 DefaultValueAccessor.prototype._handleInput = function (value) {
    if (!this._compositionMode ||
        (this._compositionMode && !this._composing)) {
        this.onChange(value);
    }
 };
 /** @internal */
 DefaultValueAccessor.prototype._compositionStart = function () {
    this._composing = true;
 };
 /** @internal */
 DefaultValueAccessor.prototype._compositionEnd = function (value) {
    this._composing = false;
    this._compositionMode && this.onChange(value);
 };

DefaultValueAccessor = __decorate([
    core.Directive({
        selector:
            'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',
            // TODO: vsavkin replace the above selector with the one below it once
            // https://github.com/angular/angular/issues/3011 is implemented
            // selector:
            'input:not([type=checkbox])[formControl],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',
            host: {
                '(input)':'$any(this)._handleInput($event.target.value)',
                '(blur)':'onTouched()',
                '(compositionstart)':'$any(this)._compositionStart()',
                '(compositionend)':'$any(this)._compositionEnd($event.target.value)'
            },
            providers:
                [DEFAULT_VALUE_ACCESSOR]
        }),
    __param(2, core.Optional()), __param(2, core.Inject(COMPOSITION_BUFFER_MODE)),
    __metadata("design:paramtypes", [core.Renderer2,
                core.ElementRef, Boolean])
], DefaultValueAccessor);
return DefaultValueAccessor;

/**
 * @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
 * Base class for control directives.
 *
 * This class is only used internally in the
 * 'ReactiveFormsModule' and the 'FormsModule'.
 *
 * @publicApi
 */
 var AbstractControlDirective = /** @class */ (function () {
    function AbstractControlDirective() {
    }

    Object.defineProperty(AbstractControlDirective.prototype, "value", {
        /**
         * @description
         * Reports the value of the control if it is present, otherwise null.
         */
        get: function () { return this.control ? this.control.value : 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.
         */
        get: function () { return this.control ? this.control.valid : false; },
        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.
         */
        get: function () { return this.control ? this.control.invalid : false; },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(AbstractControlDirective.prototype, "pending", {
        /**
         * @description
         * Reports whether a control is pending, meaning that 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, "disabled", {
        /**
         * @description
         * Reports whether the control is disabled, meaning that the control is disabled.
         */
        get: function () { return this.control ? this.control.disabled : false; },
        enumerable: true,
        configurable: true
    });

    return AbstractControlDirective;
});

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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.
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*/
*
unimplemented(); },
            enumerable: true,
            configurable: true
        });

    @throws An exception that this method is not implemented
             */
    get: function () { return

@description
             * The registered synchronous validator function for the control
             *
             *
             *
             * @description
             * The value accessor for the control
             *
             * The name for the control
             *
             * The registered synchronous validator function for the control
             *
             * @throws An exception that this method is not implemented
             */
    get: function () { return
The registered async validator function for the control
get: function () { return unimplemented(); }, enumerable: true,
configurable: true, /* @description * @throws An exception that this method is not implemented */

get: function () { return this.cd.control ? this.cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this.cd.control ? this.cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this.cd.control ? this.cd.control.pristine : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.untouched : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.dirty : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this.cd.control ? this.cd.control.pristine : false; }, enumerable: true,
configurable: true,

get: function () { return this.cd.control ? this.cd.control.dirty : false; }, enumerable: true,
configurable: true,

get: function () { return this.cd.control ? this.cd.control.untouched : false; }, enumerable: true,
configurable: true,

get: function () { return unimplemented(); }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassInvalid", {get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassPending", {get: function () { return this._cd.control ? this._cd.control.pending : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassPristine", {get: function () { return this._cd.control ? this._cd.control.pristine : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassDirty", {get: function () { return this._cd.control ? this._cd.control.dirty : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassTouched", {get: function () { return this._cd.control ? this._cd.control.touched : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassUntouched", {get: function () { return this._cd.control ? this._cd.control.untouched : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.pristine : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.dirty : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.untouched : false; }, enumerable: true,
configurable: true,

get: function () { return unimplemented(); }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassInvalid", {get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassPending", {get: function () { return this._cd.control ? this._cd.control.pending : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassPristine", {get: function () { return this._cd.control ? this._cd.control.pristine : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassDirty", {get: function () { return this._cd.control ? this._cd.control.dirty : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassTouched", {get: function () { return this._cd.control ? this._cd.control.touched : false; }, enumerable: true,
configurable: true,

Object.defineProperty(abstractControlStatus.prototype, "ngClassUntouched", {get: function () { return this._cd.control ? this._cd.control.untouched : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

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get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

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configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,

return AbstractControlStatus;

var ngControlStatusHost = {

get: function () { return this._cd.control ? this._cd.control.toggle : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.valid : false; }, enumerable: true,
configurable: true,

get: function () { return this._cd.control ? this._cd.control.invalid : false; }, enumerable: true,
configurable: true,
`AbstractControl`s.\n *\n * @see `NG_ASYNC_VALIDATORS`\n *\n * @usageNotes\n *\n * ###
Providing a custom validator\n *\n * The following example registers a custom validator directive. Adding the
validator to the\n * existing collection of validators requires the `multi: true` option.\n *\n * ```typescript\n
* @Directive({\n * selector: '[customValidator]',\n * providers: [{provide: NG_VALIDATORS,
useExisting: CustomValidatorDirective, multi: true}]\n * })\n * class CustomValidatorDirective implements
Validator {\n * validate(control: AbstractControl): ValidationErrors | null {\n * return { 'custom': true };\n
* }\n * }\n * ```\n *\n * @publicApi\n */\n var NG_VALIDATORS = new
core.InjectionToken('NgValidators');\n /**\n * @description\n * An `InjectionToken` for registering
additional asynchronous validators used with `AbstractControl`s.\n *\n * @see `NG_VALIDATORS`\n *\n
* @publicApi\n */\n var NG_ASYNC_VALIDATORS = new core.InjectionToken('NgAsyncValidators');\n
/**\n * A regular expression that matches valid e-mail addresses.\n *\n * At a high level, this regexp matches
e-mail addresses of the format `local-part@tld`, where:\n * - `local-part` consists of one or more of the allowed
characters (alphanumeric and some\n * 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\n * `foo.com`.\n * - A `label` consists of one or more of
the allowed characters (alphanumeric, dashes (`-`) and\n * periods (`.`)).\n * - A `label` cannot begin or end
with a dash (`-`) or a period (`.`).\n * - A `label` cannot be longer than 63 characters.\n * - The whole address
cannot be longer than 254 characters.\n *\n * ## Implementation background\n *\n * This regexp was
ported over from AngularJS (see there for git history):\n *
https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27\n * It is based on the\n *
[WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with\n * some
enhancements to incorporate more RFC rules (such as rules related to domain names and the\n * lengths of
different parts of the address). The main differences from the WHATWG version are:\n * - Disallow `local-part`
to begin or end with a period (`.`).\n * - Disallow `local-part` length to exceed 64 characters.\n * - Disallow
total address length to exceed 254 characters.\n *\n * See [this
commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.\n */\n var
EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+(?:\\.[a-zA-Z09!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\\.[a-zA-Z0-9](?:[a-zA-Z0-9]{0,61}[a-zA-Z0-9])?)*$/;\n /**\n * @description\n * Provides a set of built-in validators that can be used by
form controls.\n *\n * A validator is a function that processes a `FormControl` or collection of\n * controls
and returns an error map or null. A null map means that validation has passed.\n *\n * @see [Form
Validation](/guide/form-validation)\n *\n * @publicApi\n */\n var Validators = /** @class */ (function ()
{\n
function Validators() {\n
}\n
/**\n
* @description\n
* Validator that requires the control's
value to be greater than or equal to the provided number.\n
* The validator exists only as a function and not as a
directive.\n
*\n
* @usageNotes\n
*\n
* ### Validate against a minimum of 3\n
*\n
*
```typescript\n
* const control = new FormControl(2, Validators.min(3));\n
*\n
*
console.log(control.errors); // {min: {min: 3, actual: 2}}\n
* ```\n
*\n
* @returns A validator function
that returns an error map with the\n
* `min` property if the validation check fails, otherwise `null`.\n
*\n
* @see `updateValueAndValidity()`\n
*\n
*/\n
Validators.min = function (min) {\n
return
function (control) {\n
if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {\n
return null; // don't validate empty values to allow optional controls\n
}\n
var value =
parseFloat(control.value);\n
// Controls with NaN values after parsing should be treated as not having a\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
};\n
};\n
/**\n
* @description\n
* Validator that requires the control's value to be less than or equal to the
provided number.\n
* The validator exists only as a function and not as a directive.\n
*\n
*
@usageNotes\n
*\n
* ### Validate against a maximum of 15\n
*\n
* ```typescript\n
* const
control = new FormControl(16, Validators.max(15));\n
*\n
* console.log(control.errors); // {max: {max:

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```typescript
function Validators.minLength(minLength) {
    return function (control) {
        if (isEmptyInputValue(control.value)) {
            return null; // don't validate empty values to allow optional controls
        } else {
            var length = control.value.length;
            if (length < minLength) {
                return { 'minlength': { requiredLength: minLength, actualLength: length } };
            }
        }
    }
}

Validators.minLength(3));
```

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

```typescript
const control = new FormControl('ng', Validators.required);
```

```typescript
const control = new FormControl('bad@', Validators.email);
```

```typescript
const control = new FormControl('bad@', Validators.required);
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
var value = parseFloat(control.value);
```

```typescript
function Validators.max(max) {
    return function (control) {
        if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
            return null;
        } else {
            var value = parseFloat(control.value);
            return value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
        }
    }
}
```

```typescript
if (isNaN(value) && value > max) { // max' property if the validation check fails, otherwise 'null'
    Validators.max = function (max) {
        return function (control) {
            if (isEmptyInputValue(control.value) || isNaN(value) || control.value > max) {
                return null;
            } else {
                return { 'max': { 'max': max, 'actual': control.value } };
            }
        }
    }
} else if (value <= max) {
    console.log(control.errors); // {minlength: { requiredLength: 3, actualLength: 2}}
    Validators.minLength(3));
    console.log(control.errors); // {email: true}
}
```

```typescript
Validators.required = function (control) {
    return isEmptyInputValue(control.value) ? { 'required': true } : null;
}
```

```typescript
Validators.requiredTrue = function (control) {
    return control.value === true ? null : { 'required': true };
}
```

```typescript
Validators.email = function (control) {
    if (isEmptyInputValue(control.value) || !EMAIL_REGEXP.test(control.value)) {
        return null; // don't validate empty values to allow optional controls
    } else if (!EMAIL_REGEXP.test(control.value)) {
        return { 'email': true };
    }
}
```

```typescript
Validators.requiredTrue = function (control) {
    return control.value === true ? null : { 'required': true };
}
```

```typescript
return isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```

```typescript
return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```
```typescript
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**@license**

### NumberValueAccessor

The `NumberValueAccessor` for writing a number value and listening to number input changes.

* The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
directives.
* `@Input()` The disabled value

The following example shows how to use a number input with a reactive form.

```ts
var NUMBER_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(NumberValueAccessor),
    multi: true
};

@Directive({
    selector: '[formControl], [control], [ngModel]'
})
export class NumberValueAccessor {
    constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
...
    /**
     * Sets the "value" property on the input element.
     * @param value The checked value
     */
    writeValue = function (value) {
        // The value needs to be normalized for IE9, otherwise it is set to 'null' when null
        var normalizedValue = value == null ? '' : value;
        this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
    };
    /**
     * The registered callback function called when a blur event occurs on the input element.
     * @param value The checked value
     */
    onTouched = function () { };
    /**
     * Registers a function called when the control value changes.
     * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
directives.
     * @description
     * The registered callback function called when a change or input event occurs on the input
     * element.
     * @param value The checked value
     */
    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
     */
    registerOnTouched = function (fn) {
        this.onTouched = fn; };
    }
    
    static ngModule() {
        return angular.module('FormsModule', []);
    }
}
```
```javascript
RADIO_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return RadioControlValueAccessor; }),
    multi: true
};

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
RadioControlRegistry = /** @class */ (function () {
    function RadioControlRegistry() {

        this._accessors = [];
    }

    /**
     * @description
     * Adds a control to the internal registry. For internal use only.
     */
    RadioControlRegistry.prototype.add = function (control, accessor) {
        this._accessors.push([control, accessor]);
    };

    /**
     * @description
     * Removes a control from the internal registry. For internal use only.
     */
    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;
            }
        }
    };

    /**
     * @description
     * Selects a radio button. For internal use only.
     */
    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;
    };

    return RadioControlRegistry;
}();

/**
 * @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.
 *
 * @usageNotes
 * ### Using radio buttons with reactive form directives
 *
 * The follow 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.
 * @example
 * reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'
 *
 * @ngModule
 * ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */

RadioControlValueAccessor = /** @class */ (function () {
    function RadioControlValueAccessor(_renderer, _elementRef, _registry, _injector) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._registry = _registry;
        this._injector = _injector;

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

        /**
         * @description
         * The registered callback function
         */
        this.onTouched = function () { };
    }

    /**
     * @description
     * Sets the "checked" property value on the
     * radio input element.
     *
     * @param value
     */
    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.
     *
     * @param fn
     */
    RadioControlValueAccessor.prototype.registerOnChange = function (fn) {
        var _this = this;
        this._fn = fn;
        this.onChanged = function () {
            fn(_this.value);
            _this._registry.select(_this);
        };
    };

    /**
     * @description
     * Sets the "value" on the radio input element and
     * unchecks it.
     *
     * @param value
     */
    RadioControlValueAccessor.prototype.fireUncheck = function (value) { this.writeValue(value); };

    return RadioControlValueAccessor;
}();
```

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RadioControlValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; };

/**
 * Sets the 'disabled' property on the input element.
 * @param isDisabled The disabled value
 */
RadioControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
};

RadioControlValueAccessor.prototype._checkName = function () {
    if (this.name &
        \n\n\n\n\n\nRadioControlValueAccessor.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.Input()], RadioControlValueAccessor.prototype, "name", void 0);

RadioControlValueAccessor = __decorate([core.Input()], RadioControlValueAccessor.prototype, "formControlName", void 0);

RadioControlValueAccessor = __decorate([core.Input()], RadioControlValueAccessor.prototype, "value", void 0);

RadioControlValueAccessor = __decorate([core.Directive({
    selector: 'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',
    host: { '(change)': 'onChange()', '(blur)': 'onTouched()' },
    providers: [RADIO_VALUE_ACCESSOR]
})),

RadioControlValueAccessor = __decorate([core.Directive({
    selector: 'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',
    host: { 'onInputChange': 'onChange()', 'onBlur': 'onTouched()' },
    providers: [RANGE_VALUE_ACCESSOR]
})),

RangeValueAccessor = __decorate([core.Directive({
    selector: 'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',
    host: { 'onInputChange': 'onChange()', 'onBlur': 'onTouched()' },
    providers: [RANGE_VALUE_ACCESSOR]
})),

this._renderer.setProperties(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 = fn; };

/**
 * Registers a function called when the control is touched.
 * @param fn The callback function
 */
RangeValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; };

this._renderer.setProperties(this._elementRef.nativeElement, 'disabled', isDisabled);

this._renderer.setProperties(this._elementRef.nativeElement, 'disabled', isDisabled);

this._renderer.setProperties(this._elementRef.nativeElement, 'disabled', isDisabled);

```
host: { `onChange`: `onChange(event.target.value)`, `blur`: `onTouched()` },

providers: [
    [RANGE_VALUE_ACCESSOR]
],

  __metadata("design:paramtypes", []),

  FUNCTIONS

  function RangeValueAccessor():
  {
    return Class(<Class>

  }

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

  var FormErrorExamples = { formControlName: "",
  In your class:
  this.myGroup = new FormGroup({

  });

  ReactiveErrors = /** @class */
  function ReactiveErrors() {
    throw new Error("formControlName 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). Example:\n
      

      ReactiveErrors.ngModelGroupException = function() { 
        throw new Error("formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a \"form\" prefix: formGroupName, formArrayName, or formGroup. Option 1: Update the parent to be formGroupName (reactive form strategy)\n      
      ReactiveErrors.missingFormException = function() { 
        throw new Error("formGroup expects a FormGroup instance. Please pass one in. Example:\n
      
      ReactiveErrors.groupParentException = function() { 
        throw new Error("formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup\n      
      ReactiveErrors.arrayParentException = function() { 
        throw new Error("formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup\n      
      ReactiveErrors.disabledAttrWarning = function() { 
        console.warn("It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors. Example: form = new FormGroup({

      
      ReactiveErrors.ngModelWarning = function(directiveName) { 
        console.warn("It looks like you're using ngModel on the same form field as \"+ directiveName + \". Support for using the ngModel input property and ngModelChange event with reactive form directives has
been deprecated in Angular v6 and will be removed in Angular v7. For more information on this, see our API docs here: https://angular.io/api/forms/

FormControlDirective

 FormControlDirective

 FormControlName

 use-with-ngmodel

 reactiveErrors

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 NG_VALUE_ACCESSOR

 useExisting: core.forwardRef(function () { return SelectControlValueAccessor; })

 multi: true

 function _buildValueString(id, value) { if (id == null)

 return \"+ value\" if (value && typeof value === \"object\") value = \'Object\'

 return (id + \

 value).slice(0, 50);

 function _extractId(valueString) { return valueString.split(\'\')[0][0] /\n
 * description

 * The `ControlValueAccessor` for writing select control values and listening to select control events. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

 * @usageNotes

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

 * @example

 forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'

 * @usageNotes

 * The following examples show how to use a select control in a template-driven form, simply add a 

 `ngModel` and a `name` attribute to the main `<select>` tag.

 * @example

 forms/ts/selectControl/select_control_example.ts region='Component'

 * @usageNotes

 * Customizing option selection

 * Angular uses object identity to select option. It’s possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn’t changed, the second response will produce objects with different identities.

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

 * `compareWith` takes a `function` which has two arguments: `option1` and `option2`.

 * If `compareWith` is given, Angular selects option by the return value of the function.

 * `compareWith` supports object identity comparison.

 * 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.

 * Tracks the option comparison algorithm for tracking identities when checking for changes.

 * Sets: function (fn) { if (typeof fn !== \"function\") throw new Error(\"compareWith must be a function, but received \" + JSON.stringify(fn));

 * Sets the `value` property on the input element. The `selectedIndex` property is also set if an ID is provided on the option element.

 * @param value The checked value

 SelectControlValueAccessor

 ReactFormsModule

 FormsModule

 @publicApi

 ReactiveFormsModule

 @ngModule

 ReactiveFormsModule

 @ngModule

 FormsModule

 @publicApi

 SelectControlValueAccessor

 @class

 (function () {

 function SelectControlValueAccessor(_renderer, _elementRef) {

 this._renderer = _renderer;

 this._elementRef = _elementRef;

 /**

 @internal */

 this._optionMap = new Map();

 /** @internal */

 this._idCounter = 0;

 /**

 @description

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

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

 * Tracks the option comparison algorithm for tracking identities when

 * checking for changes.

 * @param fn

 * throw new Error(\"compareWith must be a function, but received \" + JSON.stringify(fn));

 * Sets the `value` property on the input element. The `selectedIndex` property is also set if an ID is provided on the option element.

 * @param value The checked value

 SelectControlValueAccessor.prototype.writeValue = function (value) {

 this.value = value;

 var id = this._getOptionId(value);

 if (id == null) {
this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);

this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
fn(this.value);

/** @description * Registers a function called when the control value changes. */
var valueString = _buildValueString(id, value);
this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);

/** @param fn The callback function */
SelectControlValueAccessor.prototype.registerOnChange = function (fn) {
    var this = this;

    this.onChange = function (valueString) {
        this.value = this._getOptionValue(valueString);
        fn(this.value);
    };

    /** * Sets the \"disabled\" property on the select input element. */
    var isDisabled = this.disabled;

    SelectControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };

    /** * @internal */
    SelectControlValueAccessor.prototype._registerOption = function () { return (this._idCounter++).toString(); }

    /** * @internal */
    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;
            }
        }

        catch (e_1_1) { e_1 = { error: e_1_1 }; }
        finally {
            try {
                if (_c && !_c.done && (_a = _b.return)) _a.call(_b);
            }
            finally { if (e_1) throw e_1.error; }
        }
        return null;
    };

    /** * @internal */
    SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {
        var id = _extractId(valueString);
        return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
    }

    __decorate([core.Input(), __metadata("design:type", Function), __metadata("design:paramtypes", [Function])], SelectControlValueAccessor.prototype, "compareWith", null);

    SelectControlValueAccessor = __decorate([core.Directive({ selector: 'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]', host: '{ (change): \'onChange(\$event.target.value),\' (blur): \'onTouched()\'}, providers: [SELECT_VALUE_ACCESSOR], core.Input(), core.Renderer2, core.ElementRef])], SelectControlValueAccessor.prototype, __metadata("design:type", Function), __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])];

    /** * Marks \'option\' as dynamic, so Angular can be notified when options change. */
    var isDynamic = false;

    SelectControlValueAccessor.prototype.setDynamic = function (isDynamic) {
        if (this._select)
            this._select.writeValue(this._select.value);
    };

    NgSelectOption = /** @class */ (function () {
        function NgSelectOption(_element, _renderer, _select) {
            this._element = _element;
            this._renderer = _renderer;
            this._select = _select;
            if (this._select)
                this.id = this._select._registerOption();
        }

        /** * Tracks the value bound to the option element. Unlike the value binding, */
        Object.defineProperty(NgSelectOption.prototype, 'value', {
            /** * 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
        });

        /** * Lifecycle method called before the directive's instance is destroyed. For internal use only. */
        NgSelectOption.prototype.ngOnDestroy = function () { if (this._select) {
            this._renderer.writeValue(this._element.nativeElement, value);
            Object.defineProperty(NgSelectOption.prototype, 'ngValue', {
                enumerable: true,
                configurable: true
            });
            this._renderer.writeValue(this._element.nativeElement, value);
            Object.defineProperty(NgSelectOption.prototype, 'selectElementValue', {
                enumerable: true,
                configurable: true
            });
            this._renderer.writeValue(this._element.nativeElement, value);
            Object.defineProperty(NgSelectOption.prototype, 'selectElementValue', {
                enumerable: true,
                configurable: true
            });
            this._renderer.writeValue(this._element.nativeElement, value);
            Object.defineProperty(NgSelectOption.prototype, 'selectElementValue', {
                enumerable: true,
                configurable: true
            });
            this._renderer.writeValue(this._element.nativeElement, value);
            Object.defineProperty(NgSelectOption.prototype, 'selectElementValue', {
                enumerable: true,
                configurable: true
            });
            this._renderer.writeValue(this._element.nativeElement, value);
            Object.defineProperty(NgSelectOption.prototype, 'selectElementValue', {
                enumerable: true,
                configurable: true
            });
        }
    }());

    return NgSelectOption;
});
function called when the control value changes and writes an array of the selected options.

```javascript
this._optionMap.forEach(optionSelectedStateSetter);
```
Open Source Used In MSX Managed Device Service Pack 3.9.0

```javascript
@description
* Registers a function called when the control is touched.

@internal * @param fn The callback function

SelectMultipleControlValueAccessor.prototype.registerOnTouched = function (fn) {
    this.onTouched = fn;
}
```

```javascript
@internal
@ngModule ReactiveFormsModule
@ngModule FormsModule
@publicApi
```
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);
};
/**
 * 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);
    }
};

__decorate([core.Input('ngValue'),
    __metadata("design:type", Object),
    __metadata("design:paramtypes", [Object])
], NgSelectMultipleOption.prototype, "ngValue", null);

__decorate([core.Input('value'),
    __metadata("design:type", Object),
    __metadata("design:paramtypes", [Object])
], NgSelectMultipleOption.prototype, "value", null);

NgSelectMultipleOption = __decorate([core.Directive({ selector: 'option' }),
    __param(2, core.Optional()), __param(2, core.Host()),
    __metadata("design:paramtypes", [core.ElementRef,
        core.Renderer2, SelectMultipleControlValueAccessor]),
], NgSelectMultipleOption);

return

/**
 * @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 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, 'No value accessor for form control with');
        });
    }
    // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
    dir._rawValidators.forEach(function (validator) {
        if (validator.registerOnValidatorChange) {
            validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
        }
    });
    dir._rawAsyncValidators.forEach(function (validator) {
        if (validator.registerOnValidatorChange) {
            validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
        }
    });
    if (control)
        control._clearChangeFns();
}

function setUpViewChangePipeline(control, dir) {
    dir.valueAccessor.registerOnChange(function (newValue) {
        control._pendingValue = newValue;
        control._pendingChange = true;
        control._pendingDirty = false;
        dir.viewToModelUpdate(control._pendingValue);
    });
    dir.valueAccessor.registerOnTouched(function () {
        control._pendingDirty = true;
        if (dir.updateControl(control, dir)) {
            if (control._pendingDirty)
                control.markAsTouched();
            dir._rawAsyncValidators.forEach(function (validator) {
                if (validator.registerOnValidatorChange) {
                    validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
                }
            });
            dir._rawValidators.forEach(function (validator) {
                if (validator.registerOnValidatorChange) {
                    validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
                }
            });
            dir._rawChangeFns();
        }
    });
}

function setUpModelChangePipeline(control, dir) {
    dir.control.registerOnModelChange(function (newValue) {
        control._pendingValue = newValue;
        control._pendingChange = true;
        control._pendingDirty = true;
        if (control.updateControl(control, dir)) {
            if (control._pendingDirty)
                control.markAsTouched();
            dir._rawAsyncValidators.forEach(function (validator) {
                if (validator.registerOnValidatorChange) {
                    validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
                }
            });
            dir._rawChangeFns();
        }
    });
    dir.valueAccessor.registerOnChange(function () {
        control._pendingDirty = true;
        if (control.updateControl(control, dir)) {
            if (control._pendingDirty)
                control.markAsTouched();
        }
    });
    dir.valueAccessor.registerOnTouched(function () {
        control._pendingDirty = true;
        if (control.updateControl(control, dir)) {
            if (control._pendingDirty)
                control.markAsTouched();
        }
    });
    dir._rawChangeFns();
}

function setUpBlurPipeline(control, dir) {
    dir.valueAccessor.registerOnTouched(function () {
        control._pendingDirty = true;
        if (control.updateControl(control, dir)) {
            if (control._pendingDirty)
                control.markAsTouched();
        }
    });
}

function updateControl(control, dir) {
    if (control._pendingDirty)
        control.markAsTouched();
    control.setValue(control._pendingValue, { emitModelToViewChange: false });
    dir.viewToModelUpdate(control._pendingValue);
    control._pendingChange = false;
}
setUpModelChangePipeline(control, dir) {
    control.registerOnChange(function (newValue, emitModelEvent) {
        if (emitModelEvent) dir.viewToModelUpdate(newValue);
    });
}

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 _throwError(dir, message) {
    var messageEnd;
    if (dir.path.length > 1) {
        messageEnd = 'path: `' + dir.path.join(' -> ') + '``';
    } else if (dir.path[0]) {
        messageEnd = 'name: `' + dir.path[0] + '``';
    } 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)) {
            if (builtinAccessor)
                _throwError(dir, 'More than one built-in value accessor matches form control with');
            builtinAccessor = v;
        } else {
            if (customAccessor)
                _throwError(dir, 'More than one custom value accessor matches form control with');
            customAccessor = v;
        }
    });
    if (customAccessor)
        return customAccessor;
    if (builtinAccessor)
        return builtinAccessor;
    if (defaultAccessor)
        return defaultAccessor;
    _throwError(dir, 'No valid value accessor for form control with');
    return null;
}

function _throwError(dir, message) {
    var messageEnd;
    if (message.length > 1) {
        messageEnd = 'path: `' + dir.path.join(' -> ') + '``';
    } else if (message.length > 0) {
        messageEnd = 'name: `' + dir.path + '``';
    } else {
        messageEnd = 'unspecified name attribute';
    }
    throw new Error(message + ' ' + messageEnd);
}

function removeDir(list, el) {
    var index = list.indexOf(el);
    if (index > -1) list.splice(index, 1);
}

function _ngModelWarning(name, type, instance, warningConfig) {
    if (!core.isDevMode() || warningConfig === 'never') return;
    if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) || (warningConfig === 'always' && !instance._ngModelWarningSent)) {
        ReactiveErrors.ngModelWarning(name);
        type._ngModelWarningSentOnce = true;
        instance._ngModelWarningSent = true;
    }
}

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

/**
 * 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 that async validation is occurring and
 * errors are not yet available for
 */
Give me a moment, I'm going to have to run some diagnostics.
### Retrieve a child control given the control's name or path.

For example, to get a `name` control nested within a `person` sub-group:

```javascript
this.form.get('person.name.');
```

-OR-

```javascript
this.form.get(['person', 'name']);
```

-OR-

```javascript
this.form.get(['person', 'name']);
```
@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.

* function FormControl(formState, validatorOrOpts, asyncValidator) { 
  if (formState === void 0) { formState = null; }
  var this = super.call(this, coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator, validatorOrOpts));
  this._onCollectionChange = function () { };
  this._onChange = []; this._onDisabledChange = [];
  this._onChange.push(fn); };

/**
 * Register a listener for disabled events.
 * @internal
 */
FormControl.prototype._clearChangeFns = function () {
  this.disabled = false; };

/**
 * Register a listener for change events.
 *
 * @param fn The method
 */
FormControl.prototype.registerOnChange = function (fn) {
  this._onChange.push(fn); this._pendingChange = false;
  fn(_this.value, options.emitViewToModelChange !== false); });
}

/**
 * Patches the value of a control.
 *
 * @param value The new value for the control.
 * @param options
 */
FormControl.prototype.patchValue = function (value, options) {
  this.setValue(value, options);
}

/**
 * Sets a new value for the form control.
 * @param value The new value for the control.
 * @param options
 */
FormControl.prototype.setValue = function (value, options) {
  this.value = this._pendingValue = value;
  if (this._onChange.length && options.emitModelToViewChange !== false) {
    this._onChange.forEach(function (changeFn) { return changeFn(_this.value, options.emitViewToModelChange !== false); });
  }
}

/**
 * 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 and emits events when the value changes.
 * @internal
 */
FormControl.prototype.reset = function (formState, options) {
  this.setValue(null, options);
  this.markAsPristine(options);
  this.markAsUntouched(options);
  this._this._setUpdateStrategy(validatorOrOpts);
  this._this._initObservables();
  this._this._applyFormState(formState);
  this.setValue(value, options);
  this._this._applyFormState(formState);
  this.markAsPristine(options);
  this.markAsUntouched(options);
  this._this.updateValueAndValidity({ onlySelf: true, emitEvent:
false });
  this.value = this._pendingValue = value;
  if (this._onChange.length && options.emitModelToViewChange !== false) {
    this._onChange.forEach(function (changeFn) { return changeFn(_this.value, options.emitViewToModelChange !== false); });
  }
}

/**
 * Registers a listener for changes on this control.
 *
 * @param fn The method that is called when the value changes.
 * @param options
 */
FormControl.prototype.registerOnChange = function (fn) {
  this._onCollectionChange = [];
  this._onCollectionChange.push(fn);
}

/**
 * Registers a listener for disabled events.
 * @param fn The method that is called when the value changes.
 * @param options
 */
FormControl.prototype.registerOnDisabledChange = function (fn) {
  this._onCollectionChange = [];
  this._onCollectionChange.push(fn);
}
* 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 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'.

* 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.

* A `FormGroup` tracks the value and validity state of a group of `FormControl` instances.

```ts
const form = new FormGroup({
    first: new FormControl('Nancy', Validators.minLength(2)),
    last: new FormControl('Drew'),
    adress: new FormControl('123 Somewhere St'),
});
```

* 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.

* The options object is used to set a default value for each child control's `updateOn` property. If you set `updateOn` to 'submit' at the group level, all child controls default to 'submit', unless the child has explicitly specified a different `updateOn` value.

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* 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 its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid.
**FormGroup.prototype.setValue**

- **@param** value The new value for a form group
- **@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.

- **form.setValue({first: 'Nancy', last: 'Drew'})**
  - **console.log(form.value);**
    - `{first: 'Nancy', last: 'Drew'}`

**FormGroup.prototype.removeControl**

- **@param** name The control name to remove from the collection
- **form.removeControl = function (name) {**
  - **if (this.controls[name])**
    - **this.controls[name]._onCollectionChange();**
    - **delete (this.controls[name]);**

**FormGroup.prototype.contains**

- **@param** controlName The control name to check for existence in the group
- **@returns** false for disabled controls, true otherwise.

- **const form = new FormGroup({**
  - **first: new FormControl(),**
  - **last: new FormControl()**
  - **});**
  - **form.patchValue({first: 'Nancy'});
    - **console.log(form.value);**
    - `{first: 'Nancy', last: null}`
  - **form.setValue({first: 'Nancy', last: 'Drew'});
    - **console.log(form.value);**
    - `{first: 'Nancy', last: 'Drew'}`

**FormGroup.prototype.addControl**

- **@param** name The control name to add to the collection
- **@param** control Provides the control for the given name
- **this.addControl = function (name, control) {**
  - **if (name) {**
    - **return this.controls[name];**
  - **}**
  - **this.controls[name] = control;**
  - **control.setParent(this);**
  - **control._onCollectionChange();**

**FormGroup.prototype.removeControl**

- **@param** name The control name to remove from the collection
- **this.removeControl = function (name) {**
  - **if (this.controls[name])**
    - **this.controls[name]._onCollectionChange();**
    - **delete (this.controls[name]);**

**FormGroup.prototype.registerControl**

- **@param** control Provides the control for the given name
- **this.registerControl = function (name, control) {**
  - **if (name) {**
    - **return this.controls[name];**
  - **}**
  - **this.controls[name] = control;**
  - **control.setParent(this);**
  - **control._onCollectionChange();**

**FormGroup.prototype.controls**

- **@param** name The control name to check for existence in the collection
- **@returns** The control that matches the structure of the group
- **Const form = new FormGroup({**
  - **first: new FormControl(),**
  - **last: new FormControl()**
  - **});**
  - **form.setValue({first: 'Nancy', last: 'Drew'});
    - **console.log(form.value);**
    - `{first: 'Nancy', last: 'Drew'}`

**FormGroup.prototype.contains**

- **@param** controlName The control name to check for existence in the group
- **@returns** false for disabled controls, true otherwise.

**FormGroup.prototype.contains**

- **@param** name The control name to check for existence in the collection
- **@returns** false for disabled controls, true otherwise.

**FormGroup.prototype.contains**

- **@param** name The control name to check for existence in the collection
- **@returns** false for disabled controls, true otherwise.
FormArray.prototype.setValue = function (value, options) {
    // ...
FormArray

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
```

### Reset the `FormArray` and all descendants are marked 'pristine' and 'untouched', and then value of all descendants to null or null maps.

```ts
Reset the `FormArray` and all descendants are marked 'pristine' and 'untouched', and then value of all descendants to null or null maps.
```

### Reset the `FormArray` and all descendants' disabled status.

```ts
Reset the `FormArray` and all descendants' disabled status.
```

### Remove all controls in the `FormArray`.

```ts
Remove all controls in the `FormArray`.
```

### Remove all elements from a `FormArray`.

```ts
Remove all elements from a `FormArray`.
```

### Remove all elements one by one:

```ts
Remove all elements one by one:
```

### Resets the `FormArray`

```ts
Resets the `FormArray`
```

### Resets the `FormArray` and all descendants are marked `pristine` and `untouched`, and then value of all descendants to null or null maps.

```ts
Reset the `FormArray` and all descendants are marked `pristine` and `untouched`, and then value of all descendants to null or null maps.
```

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```ts
Remove all elements from a `FormArray`.
```

### Remove all elements one by one:

```ts
Remove all elements one by one:
```
### Setting the update options

Capture the form values from the "ngSubmit" event.

```typescript
@usageNotes
### Listening for form submission

The following example shows how to

```html
<template>
</template>
```
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```typescript
/**
 * @description
 * Removes the `NgModelGroup` directive instance from the form.
 *
 * @param dir The `NgModelGroup` directive instance.
 */
NgForm.prototype.removeFormGroup = function (dir)
{
    var 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.
 */
NgForm.prototype.addFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = this._findContainer(dir.path);

        if (container) {
            container.registerControl(dir.name, dir.control);
            setUpControl(dir.control, dir);
        }
    });
}

/**
 * @description
 * Removes the `NgModel` instance from the internal list of directives
 *
 * @param dir The `NgModel` directive instance.
 */
NgForm.prototype.removeControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);

        if (container) {
            container.removeControl(dir.name);
        }
    });
}

/**
 * @description
 * The internal `FormGroup` instance.
 */
NgForm.prototype.getFormGroup = function () { return this.form; };

/**
 * @description
 * The `FormGroup` instance.
 */
NgForm.prototype.getFormGroup = function () { return this.form; };

/**
 * @description
 * Event emitter for the "ngSubmit" event
 */
_this.ngSubmit = new core.EventEmitter();

/**
 * @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.
 */
NgForm.prototype.updateValueAndValidity = function () {
    var container = _this._findContainer(dir.path);

    if (container) {
        container.updateValueAndValidity({ emitEvent: false });
    }
}

/**
 * @description
 * Retrieves the `FormControl` instance from the provided `NgModel`
 */
NgForm.prototype.getControl = function (dir) { return this.form.get(dir.path); };

/**
 * @description
 * Returns whether the form submission has been triggered.
 */
_this.submitted = false;

/**
 * @description
 * Lifecycle method called after the view is initialized. For internal use only.
 */
NgForm.prototype.ngAfterViewInit = function () { this._setUpdateStrategy(); };
```

Because this directive always lives at the top level of a form, it is always an empty array. If the `FormModule` or `ReactiveFormModule` are imported into the application, Angular automatically adds the `novalidate` attribute on any `<form>` whenever validation is enabled. To enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element:

```html
<form ngNativeValidate>
  ...
</form>
```

To prevent the native DOM form validation UI from interfering with Angular’s form validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever a `FormModule` or `ReactiveFormModule` are imported into the application. If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element:

```html
<form ngNativeValidate>
  ...
</form>
```
Sets the new value for the provided `NgControl` directive.

@container The `NgControl` directive instance.

@param value The new value for the directive's control.

NgForm.prototype.updateModel = function (dir, value) {
    var _this = this;
    resolvedPromise.then(function () {
        var ctrl = _this.form.get(dir.path);
        ctrl.setValue(value);
    });
};

/**
 * @description
 * Sets the value for this `FormGroup`.
 *
 * @param value The new value.
 */
NgForm.prototype.setValue = function (value) {
    this.control.setValue(value);
};

/**
 * @description
 * Method called when the `\submit\` event is triggered on the form.
 *
 * Triggers the `\submit\` emitter to emit the `\submit\` event as its payload.
 * @param value The new value for the form.
 */
NgForm.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.
 */
NgForm.prototype.onReset = function () {
    this.resetForm();
};

/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 *
 * @param value The new value
 */
NgForm.prototype.resetForm = function (value) {
    if (value === void 0) { value = undefined; }
    this.form.reset(value);
    this.submitted = false;
};
* The path to this group from the top-level directive.

```javascript
    * get: function () { return controlPath(this.name == null ? this.name : this._parent); },
```

```javascript
    enumerable: true,
    configurable: true
```}

Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {

```javascript
    get: function () {
        return composeValidators(this._validators);
    },
```

```javascript
    enumerable: true,
    configurable: true
```}

Object.defineProperty(AbstractFormGroupDirective.prototype, "asyncValidator", {

```javascript
    get: function () {
        return composeAsyncValidators(this._asyncValidators);
    },
```

```javascript
    enumerable: true,
    configurable: true
```}

/** @internal */
AbstractFormGroupDirective.prototype._checkParentType = function () { };

return AbstractFormGroupDirective;

```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
 */
```

```typescript
    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 ngModelGroup (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
        };
        TemplateDrivenErrors.missingNameException = function () {
            throw new Error("If ngModel is used within a form tag, either the name attribute must be set or the\n      form control must be defined as 'standalone' in ngModelOptions:\n\n      Example 1: <input [(ngModel)]=\"person.firstName\" name=\"first\">\n      Example 2: <input [(ngModel)]=\"person.firstName\" [ngModelOptions]=\"{standalone: true}\">\n\n      Option 1: Use formGroupName instead of ngModel (reactive strategy):\n\n      \"formControlName\" instead of ngModel (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
        };
        return TemplateDrivenErrors;
    }());
```
@NgModule

```
FormsModule
     * @publicApi
     */
    var NgModelGroup = /** @class */ (function (_super) {
        __extends(NgModelGroup, _super);
        function NgModelGroup(parent, validators, asyncValidators) {
            var _this = _super.call(this) || this;
            _this._parent = parent;
            _this._validators = validators;
            _this._asyncValidators = asyncValidators;
            return _this;
        }
        NgModelGroup.prototype._checkParentType = function () {
            if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
                throw new TemplateDrivenErrors.modelGroupParentException();
            }
        };
        var NgModelGroup_1 = NgModelGroup;
        __decorate([core.Input('ngModelGroup'), __metadata("design:type", String)
], NgModelGroup.prototype, "name", void 0);
        NgModelGroup = NgModelGroup_1 = __decorate([core.Directive({ selector: '[ngModelGroup]', providers: [modelGroupProvider], exportAs: 'ngModelGroup' }),

            __param(0, core.Host()), __param(0, core.Optional()), __param(0, core.Self()),
            __param(1, core.Optional()), __param(1, core.Self()),

            __param(2, core.Optional()), __param(2, core.Self()),
            __param(2, core.Inject(NG_ASYNC_VALIDATORS)),

            __metadata("design:paramtypes", [ControlContainer, Array, Array]),

        ], NgModelGroup);
        return NgModelGroup;
    }(AbstractFormGroupDirective));

    /**
     * @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
     */
    var formControlBinding = {
        provide: NgControl,
        useExisting: core.forwardRef(function () { return NgModel; })
    };
    var 0$1 = function () { return Promise.resolve(null); };

    /**
     * `ngModel` forces an additional change detection run when its inputs change:
     * E.g.:
     * ```
     * <div>{{myModel.valid}}</div>
     * <input 
     *     [(ngModel)]="myValue" #myModel="ngModel">
     * ```
     * I.e. `ngModel` can export itself on the element and then be used in the template.
     * Normally, this would result in expressions before the `input` that use the exported directive
     * to have and old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change run:
     * - this is just one extra run no matter how many `ngModel` have been changed
     * - this is a general problem when using `exportAs` for directives!
     */
    var resolvedPromise$1 = (0$1)();
following example shows controls using `ngModel` within a form:

```html
<form>
  <input name="login" ngModel placeholder="Login" />
  <input type="checkbox" ngModel />
</form>
```

### Setting the ngModel name attribute through options

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 />
</form>
```

### Using a standalone ngModel

A lifecycle method called when the directive’s inputs change. For internal use only.

```html
<my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}"></my-person-control>
```

### Setting the name attribute

The name attribute is used within a form component, and the name `@Input` property serves a different purpose.

```html
<my-person-control name="Nancy" ngModel [ngModelOptions]="{standalone: true}">
  </my-person-control>
```

### Using ngModel within a group

The following example shows controls using `ngModel` within a group.

```html
<div>
  <form>
    <input name="login" ngModel placeholder="Login">
    <input type="checkbox" ngModel />
  </form>
</div>
```

### Using a standalone ngModel

A lifecycle method called before the directive’s instance is destroyed. For internal use only.

```html
<my-person-control name="Nancy" ngModel [ngModelOptions]="{standalone: true}">
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel />
</my-person-control>
```
NgModel.prototype._isStandalone = function () {
    return !(this._parent || !(this.options &
    this.options.standalone));
};
NgModel.prototype._setUpStandalone = function () {
    setUpControl(this.control, this);
    this.control.updateValueAndValidity({ emitEvent: false });
};
NgModel.prototype._checkForErrors = function () {
    if (!this._isStandalone()) {
        this._checkParentType();
    }
    this._checkName();
};
NgModel.prototype._checkParentType = function () {
    if (!this._isStandalone()) {
        this._checkName();
    } else if (!this._isStandalone()) {
        TemplateDrivenErrors.formGroupNameException();
    }
    else if (this._isStandalone() & this.isStandalone) {
        TemplateDrivenErrors.modelParentException();
    }
    else if (this._isStandalone() & !this.isStandalone) {
        TemplateDrivenErrors.missingNameException();
    }
};
NgModel.prototype._updateValue = function (value) {
    var _this = this;
    resolvedPromise$1.then(function () {
        _this.control.setValue(value, { emitViewToModelChange: false });
    });
};
NgModel.prototype._updateDisabled = function (changes) {
    var _this = this;
    var disabledValue = changes['isDisabled'].currentValue;
    var isDisabled = disabledValue === '' ||
    (disabledValue && disabledValue !== 'false');
    resolvedPromise$1.then(function () {
        if (isDisabled & !this._this.control.disabled) {
            this._this.control.disable();
        }
        else if (!isDisabled & this.control.disabled) {
            this.control.enable();
        }
    });
};

__decorate([
    core.Input(),
    __metadata("design:type", String)
], NgModel.prototype, "name", void 0);

__decorate([
    core.Input('disabled'),
    __metadata("design:type", Boolean)
], NgModel.prototype, "isDisabled", void 0);

__decorate([
    core.Input('ngModel'),
    __metadata("design:type", Object)
], NgModel.prototype, "model", void 0);

__decorate([
    core.Input('ngModelOptions'),
    __metadata("design:type", Object)
], NgModel.prototype, "options", void 0);

__decorate([
    core.Output('ngModelChange'),
    __metadata("design:type", Object)
], NgModel.prototype, "update", void 0);

NgModel = __decorate([
    core.Directive({
        selector: '
"[ngModel]:not([formControlName]):not([formControl]):not([formControl])"',
        host: { 'novalidate': '' },
    }),
    __param(0, core.Optional()),
    __param(0, core.Host()),
    __param(1, core.Optional()),
    __param(1, core.Self()),
    __param(1, core.Inject(NG_VALIDATORS)),
    __param(2, core.Optional()),
    __param(2, core.Self()),
    __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
    __param(3, core.Optional()),
    __param(3, core.Self()),
    __param(3, core.Inject(NG_VALUE_ACCESSOR)),
    __metadata("design:paramtypes", [ControlContainer,
        Array,
        Array, Array]),
],
NgModel);
return NgModel;
}

/**
 * @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
 * 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
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */

var NgNoValidate = /** @class */ (function () {
    function NgNoValidate() {
    }
    NgNoValidate = __decorate([
        core.Directive({
            selector: 'form:not([ngNoForm]):not([ngNativeValidate]):not([formControlName]):not([formControl]):not([formControl])',
            host: { 'novalidate': '' },
        }),
        __param(0, core.Optional()),
        __param(0, core.Host()),
        __param(1, core.Optional()),
        __param(1, core.Self()),
        __param(1, core.Inject(NG_VALIDATORS)),
        __param(2, core.Optional()),
        __param(2, core.Self()),
        __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
        __param(3, core.Optional()),
        __param(3, core.Self()),
        __param(3, core.Inject(NG_VALUE_ACCESSOR)),
        __metadata("design:paramtypes", [ControlContainer,
            Array, Array, Array]),
    ],
NgNoValidate);
return NgNoValidate;
}

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```
    /**
     * @description
     * A lifecycle method called when the directive's inputs change. For
     * any reactive form directives (and get/set values using reactive forms patterns) or
     * switch over to template-driven
directives.
    */
    ngOnChanges = function (changes) {
        if (this._isControlChanged(changes)) {
            setUpControl(this.form, this);
            if (this.control.disabled && this.valueAccessor.
                 * only.
                 *
                 * @param changes A object of key/value pairs for the set of changed
         */
        FormControlDirective.prototype.ngOnChanges = function (changes) {
            if
        }
        FormControlDirective_1 = FormControlDirective;
    }
    FormControlDirective = /** @class */ (function (_super) {
        __extends(FormControlDirective, _super);
    })(CoreDirectives.Directives, _super);
}

    /**
     * @description
     * * Syncs a standalone ` FormControl ` instance to a form control element.
     */
    @ngInject
    useExisting: core.forwardRef(function () { return FormControlDirective; })
}


```

---

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this.form.updateValueAndValidity({ emitEvent: false });
            if (isPropertyUpdated(changes, this.viewModel)) {
                _ngModelWarning('formControl', FormControlDirective_1, this,
            _ngModelWarningConfig);
            this.form.setValue(this.model);
            this.viewModel = this.model;
        };
        Object.defineProperty(FormControlDirective.prototype, \"path\", {
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormControlDirective.prototype, \"validator\", {
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormControlDirective.prototype, \"asyncValidator\", {
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormControlDirective.prototype, \"control\", {
            enumerable: true,
            configurable: true
        });
        FormControlDirective.prototype.viewToModelUpdate = function (newValue) {
            this.viewModel = newValue;
            this.update.emit(newValue);
        };
        FormControlDirective.prototype._isControlChanged = function (changes) {
            return changes.hasOwnProperty('form');
        };
        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]' }),
            __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);
    };

    /**
     * @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,
        useClass: FormGroupDirective
    };
    /**
     * 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`
     */
    var FormGroupDirective = function (NgControl) {
        return NgControl;
    }();

    if (isPropertyUpdated(changes, this.viewModel)) {
        _ngModelWarning('formControl', FormControlDirective_1, this,
            _ngModelWarningConfig);
        this.form.setValue(this.model);
        this.viewModel = this.model;
    }

    Object.defineProperty(FormControlDirective.prototype, \"form\", {
        get: function () { return composeValidators(this._rawValidators); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormControlDirective.prototype, \"isDisabled\", {
        get: function () { return false; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormControlDirective.prototype, \"ngModel\", {
        get: function () { return null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormControlDirective.prototype, \"update\", {
        enumerable: true,
        configurable: true
    });
    FormControlDirective.prototype._ngModelWarningSentOnce = false;
    FormControlDirective._ngModelWarningSentOnce = false;
    FormControlDirective.prototype.isControlChanged = function (changes) {
        return changes.hasOwnProperty('form');
    };
    FormControlDirective.prototype.update = function (newValue) { return newValue; }

FormGroup with first name and last name controls, and listens for the *ngSubmit* event when the button is clicked. It reports the whether the form submission has been triggered.

Tracks the `FormGroup` bound to this directive. Emits an event when the form submission has been triggered.

A lifecycle method called when the directive's inputs change. For internal use only.

Changes a object of key/value pairs for the set of changed inputs.

FormGroupDirective.prototype.ngOnChanges = function (changes) {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
        this._updateValidators();
        this._updateDomValue();
        this._updateRegistrations();
    }
};

FormGroupDirective.prototype.addControl = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
    return ctrl;
};

FormGroupDirective.prototype.getControl = function (dir) { return this.form.get(dir.path); };

FormGroupDirective.prototype.removeControl = function (dir) { removeDir(this.directives, dir); };

FormGroupDirective.prototype.addFormGroup = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

FormGroupDirective.prototype.removeFormGroup = function (dir) { };

FormGroupDirective.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); };

FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

FormGroupDirective.prototype.removeFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

Object.defineProperty(FormGroupDirective.prototype, "formDirective", {
    /**
     * @description
     * Returns this directive's instance.
     */
    get: function () { return this; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormGroupDirective.prototype, "control", {
    /**
     * @description
     * Returns the `FormGroup` bound to this directive.
     */
    get: function () { return this.form; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormGroupDirective.prototype, "path", {
    /**
     * @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: function () { return [ ];
    enumerable: true,
    configurable: true
});

FormGroupDirective.prototype.ngOnChanges = function (changes) {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
        this._updateValidators();
        this._updateDomValue();
        this._updateRegistrations();
    }
};

FormGroupDirective.prototype.addFormGroup = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

FormGroupDirective.prototype.removeFormGroup = function (dir) { };

FormGroupDirective.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); };

FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

FormGroupDirective.prototype.removeFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
};

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* No-op method to remove the form array.

```javascript
FormGroupDirective.prototype.removeFormArray = function (dir) { };
```

* Sets the new value for the provided `FormControlName` directive instance.

```javascript
FormGroupDirective.prototype.updateModel = function (dir, value) {
    var ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
}
```

* Method called when the `submit` event is triggered on the form.

```javascript
FormGroupDirective.prototype.onSubmit = function ($event) {
    this.submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit($event);
    return false;
}
```

* Method called when the `reset` event is triggered on the form.

```javascript
FormGroupDirective.prototype.onReset = function () {
    this.resetForm();
}
```

* Use nested form groups to validate a sub-group of a form separately.
The following example uses the {link AbstractControl#getColor method} to access the
* associated `FormGroup`.

* The following example uses the {link AbstractControl#getColor method} to access
* individual controls within the group.

* The following example registers a nested *name* `FormGroup` within an existing `FormGroup`,
* and provides methods to retrieve the nested `FormGroup` and individual controls.

* @example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'

* @ngModule

* ReactiveFormsModule

* @publicApi

*/

var FormGroupName = /** @class */ (function (_super) {
    __extends(FormGroupName, _super);  
    function FormGroupName(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }

    FormGroupName.prototype._checkParentType = function () {
        if (_hasInvalidParent(this._parent)) {
            ReactiveErrors.groupParentException();
        }
    };

    __decorate([ 
        core.Input('formGroupName'),
        __metadata("design:type", Object)
    ], FormGroupName.prototype, "name", void 0);

    FormGroupName = __decorate([ 
        core.Directive({ selector: '[formGroupName]', providers: [formGroupNameProvider] }),
        __param(0, core.Optional()), __param(0, core.SkipSelf()),
        __param(0, core.Inject(NG_VALIDATORS)),
        __param(2, core.Optional()), __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
        __metadata("design:paramtypes", [ControlContainer, Array, Array])
    ], FormGroupName);

    return FormGroupName;
});

var formArrayNameProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () {
        return FormArrayName; })
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 *
 * This directive is designed to be used with a parent `FormGroupDirective` (selector:
 * "[formGroup]"). It accepts the string name of the nested `FormArray` you want to link, and
 * will look for a `FormArray` registered with that name in the parent.
 *
 * @example forms/ts/nestedFormArray/nested_form_array_example.ts region='Component'
 *
 * @ngModule

 * ReactiveFormsModule

 * @publicApi
 */

var FormArrayName = /** @class */ (function (_super) {
    __extends(FormArrayName, _super);
    function FormArrayName(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }

    FormArrayName.prototype.ngOnInit = function () {
        this._checkParentType();
        this.formDirective.addFormArray(this);
    };

    FormArrayName.prototype.ngOnDestroy = function () {
        if (this.formDirective) {
            this.formDirective.removeFormArray(this);
        }
    };

    Object.defineProperty(FormArrayName.prototype, "control", {
        get: function () { return this.formDirective.getFormArray(this); },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(FormArrayName.prototype, "formDirective", {
        get: function () { return this.formDirective; },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(FormArrayName.prototype, "path", {
        get: function () { return this._parent.path; },
        enumerable: true,
        configurable: true
    });
@description
* Returns an array that represents the path from the top-level form to this control.

Each index is the string name of the control on that level.

* get: function () { return controlPath(this.name == null ? this.name : this.name.toString(), this._parent); },

* enumerable: true,
* configurable: true
};

Object.defineProperty(FormArrayName.prototype, 'validator', {
  /**
   * @description
   * Synchronous validator function composed of all the synchronous validators registered with this
   * directive.
   */
  get: function () { return composeValidators(this._validators); },
  enumerable: true,
  configurable: true
});

Object.defineProperty(FormArrayName.prototype, 'asyncValidator', {
  /**
   * @description
   * Async validator function composed of all the async validators registered with this directive.
   */
  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.Host()), __param(0, core.SkipSelf()),
                             __param(1, core.Optional()), __param(1, core.SkipSelf()), __param(1, core.Inject(NG_VALIDATORS)),
                             __param(2, core.Optional()), __param(2, core.SkipSelf()), __param(2, core.Inject(NG_ASYNC_VALIDATORS))], FormArrayName);

return FormArrayName;

};

function _hasInvalidParent(parent) {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
     !(parent instanceof 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 `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * The following example shows how to register multiple form controls within a form group
 * and set their value.
 * To see `formControlName` examples with different form control types, see:
 * * Radio buttons: `RadioControlValueAccessor`
 * * Selects: `SelectControlValueAccessor`
 * * 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: `@Optional`, `@Input`, `@Output`
 * * Usage with ngModel
 * * Support for using the `ngModel` input property and `ngModelChange` event with reactive
 * * template-driven and reactive forms strategies, which
 * * we generally don't recommend because it doesn't take advantage of the full benefits of
 * * either strategy. Setting the value in the template violates the template-agnostic
 * * principles behind reactive forms, whereas adding a `FormControl / FormGroup` layer in
 * * the class removes the convenience of defining forms in the template.
 * * To update your code before support is removed, you'll want to decide whether to stick with
 * * reactive form directives (and get/set values using reactive forms patterns) or switch over to
 * * template-driven directives.
 * * After (choice 1 - use reactive
forms):

```html
<form [formGroup]="form">
  <input formControlName="first">
</form>
```

```ts
this.form.get('first').setValue('some value');
```

Alternatively, you can choose to surface a separate warning for this input with a config value of `\"always\"`. This may help to track down where in the code\n* the pattern is being used as the code is being updated.

* @ngModule ReactiveFormsModule
* @publicApi
* @var FormControlName = /** @class */ (function (_super) {
  __extends(FormControlName, _super);
  function FormControlName(parent, validators, asyncValidators, valueAccessors, _ngModelWarningConfig) {
    var _this = _super.call(this) || this;
    _this._ngModelWarningConfig = _ngModelWarningConfig;
    _this._added = false;
    _this.ngModelWarningConfig = _ngModelWarningConfig;
    _this._parent = parent;
    _this._rawValidators = validators || [];
    _this._rawAsyncValidators = asyncValidators || [];
    _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
    return _this;
  }
  FormControlName_1 = FormControlName;
  Object.defineProperty(FormControlName.prototype, "isDisabled", {
    /**
     * @description
     * Triggers a warning that this input should not be used with reactive forms.
     */
    set: function (isDisabled) { ReactiveErrors.disabledAttrWarning();
    },
    enumerable: true,
    configurable: true
  });
  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   * @param changes
   * @param changes
   */
  FormControlName.prototype.ngOnDestroy = function () {
    if (this.formDirective)
      this.formDirective.removeControl(this);
  };
  /**
   * @description
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   */
  get: function () {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  },
  enumerable: true,
  configurable: true
});
Object.defineProperty(FormControlName.prototype, "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(FormControlName.prototype, "asyncValidator", {
  /**
   * Async validator function composed of all the async validators registered with this
   */
  get: function () {
    return composeValidators(this._rawAsyncValidators);
  },
  enumerable: true,
  configurable: true
});
``
```javascript
get: function () { return composeAsyncValidators(this._rawAsyncValidators); },
enumerable: true,
configurable: true
); }
FormControlName.prototype._checkParentType = function () {
    if (this._parent instanceof FormGroupName)
        ReactiveErrors.ngModelGroupException();
    else if (this._parent instanceof FormArrayName)
        ReactiveErrors.controlParentException();
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
}

var FormControlName_1;
/**
 * @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
 */
FormControlName._ngModelWarningSentOnce = false;
__decorate(
    [core.Input('formControlName'),
        __metadata("design:type", Object)
    ], FormControlName.prototype,
    "name", void 0);
__decorate(
    [core.Input('disabled'),
        __metadata("design:type", Boolean),
        __metadata("design:paramtypes", [Boolean])
    ], FormControlName.prototype,
    "isDisabled", null);
__decorate(
    [core.Input('ngModel'),
        __metadata("design:type", Object)
    ], FormControlName.prototype,
    "model", void 0);
__decorate(
    [core.Output('ngModelChange'),
        __metadata("design:type", Object)
    ], FormControlName.prototype,
    "update", void 0);

var FormControlName_2;
/**
 * @description
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
var REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return RequiredValidator; }),
    multi: true
};
/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
var CHECKBOX_REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return CheckboxRequiredValidator; }),
    multi: true
};
```

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RequiredValidator.prototype.validate = function (control) {
    return this.required;
};
Validators.required(control) : null;
/**
 * Registers a callback function
to call when the validator inputs change.

 * @param fn The callback function
 */
RequiredValidator.prototype.registerOnValidatorChange = function (fn) {
    this._onChange = fn;
};

__decorate([
    core.Input(),
    __metadata("design:paramtypes", [Object])
], RequiredValidator.prototype,
    "required", null);

RequiredValidator = __decorate([
    core.Directive({
        selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl]
        
    
        [ngModel][required],
        providers: [REQUIRED_VALIDATOR],
    host: {
        'attr.required': 'required ? null : null
    }
}, RequiredValidator);

return RequiredValidator;
}();

/**
 * @description
 * Registers a callback function
to call when the validator inputs change.
 *
 * @param fn The callback function
 */
RequiredValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }

__decorate([
    core.Input(),
    __metadata("design:paramtypes", [Object])
], RequiredValidator.prototype, "required", null);

RequiredValidator = __decorate([
    core.Directive({
        selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl]
        
    
        [ngModel][required],
        providers: [CHECKBOX_REQUIRED_VALIDATOR],
    host: {
        'attr.required': 'required ? null : null
    }
}, CheckboxRequiredValidator);

return CheckboxRequiredValidator;
}();

/**
 * @description
 * Provider which adds
 * `EmailValidator` to the `NG_VALIDATORS` multi-provider list.

 * @see \[Form Validation\](guide/form-validation)

 * @publicApi
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 */
EmailValidator = /** @class */ (function () {
    function EmailValidator() {
    }

    Object.defineProperty(EmailValidator.prototype, "email", {
        /**
         * @description
         * Tracks changes to the email attribute bound to this directive.
         */
        set: function (value) {
            this._enabled = value === '' || value === true || value === 'true';
            if (this._onChange)
                this._onChange();
        },
        enumerable: true,
        configurable: true
    });

    /**
     * @description
     * Method that validates whether an email address is valid.
     * Returns the validation result if enabled, otherwise null.
     */
    EmailValidator.prototype.validate = function (control) {
        return this.enabled ? Validators.email(control) : null;
    };

    __decorate([
        core.Input(),
        __metadata("design:paramtypes", [Object])
    ], EmailValidator.prototype, "email", null);

    EmailValidator = __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 : null
        }
    }, EmailValidator);

    return EmailValidator;
}());

Object.defineProperty(EmailValidator.prototype, "email", {
    /**
     * @description
     * Tracks changes to the email attribute bound to this directive.
     */
    set: function (value) {
        this.enabled = value === "" || value === true || value === 'true';
        if (this._onChange)
            this._onChange();
    },
    enumerable: true,
    configurable: true
});

/**
 * Method that validates whether an email address is valid.
 * Returns the validation result if enabled, otherwise null.
 */
EmailValidator.prototype.validate = function (control) {
    return this.enabled ? Validators.email(control) : null;
};

__decorate([
    core.Input(),
    __metadata("design:paramtypes", [Object])
], EmailValidator.prototype, "required", null);

EmailValidator = __decorate([
    core.Directive({
        selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl]
        
    
        [ngModel][required],
        providers: [REQUIRED_VALIDATOR],
    host: {
        'attr.required': 'required ? null : null
    }
}, EmailValidator);

return EmailValidator;
}();

** Open Source Used In MSX Managed Device Service Pack 3.9.0 5783
EmailValidator = __decorate([
    core.Directive({
        selector: [
            '[email][formControlName],[email][formControl],[email][ngModel],
        ],
        providers:
    }[
        EMAIL_VALIDATOR
    ],
    EmailValidator)
], EmailValidator
); return EmailValidator;

/**
 @description
 * Provider which adds 'MinLengthValidator' to the 'NG_VALIDATORS' multi-provider list.
 */
var MIN_LENGTH_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return MinLengthValidator; }),
    multi: true
}

/**
 * A directive that adds minimum length validation to controls marked with the
 * 'minlength' attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list.
 */
MinLengthValidator.prototype.ngOnChanges = function (changes) {
    if ('minlength' in changes) {
        this._createValidator();
        if (this._onChange)
            this._onChange();
    }
}

/**
 * @description
 * Method that validates whether the value meets a minimum length
 * requirement. Returns the validation result if enabled, otherwise null.
 */
MinLengthValidator.prototype.validate = function (control) {
    return this.minlength == null ? null : this._validator(control);
}

/**
 * Registers a callback function to call when
 * the validator inputs change.
 *
 * @param fn The callback function
 */
MinLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }

MinLengthValidator.prototype._createValidator = function () {
    this._validator = Validators.minLength(typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
}

__decorate([
    core.Input(),
    __metadata("design:type", Object)
], MinLengthValidator.prototype, "minlength", void 0);

MinLengthValidator = __decorate([
    core.Directive({
        selector: [
            '[minlength][formControlName],[minlength][formControl],[minlength][ngModel],
        ],
        providers:
    }[
        MIN_LENGTH_VALIDATOR
    ],
    MinLengthValidator)
], MinLengthValidator
); return MinLengthValidator;

/**
 * @description
 * Provider
 which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
var MAX_LENGTH_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return MaxLengthValidator; }),
    multi: true
}

/**
 * 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.
 */
MaxLengthValidator.prototype.ngOnChanges = function (changes) {
    if ('maxlength' in changes) {
        this._createValidator();
        if (this._onChange)
            this._onChange();
    }
}

/**
 * Method that validates whether the value exceeds
 * the maximum length
 * requirement.
 */
MaxLengthValidator.prototype.validate = function (control) {
    return this.maxlength != null ? this._validator(control) : null;
}

/**
 * Registers a
callback function to call when the validator inputs change.

### MaxLengthValidator

#### MaxLengthValidator.prototype.registerOnValidatorChange

```javascript
MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) {
    this._onChange = fn;
};
```

#### MaxLengthValidator.prototype._createValidator

```javascript
MaxLengthValidator.prototype._createValidator = function () {
    this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
};
```

### MaxLengthValidator

#### MaxLengthValidator.prototype.registerOnValidatorChange

```javascript
MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) {
    this._onChange = fn;
};
```

#### MaxLengthValidator.prototype._createValidator

```javascript
MaxLengthValidator.prototype._createValidator = function () {
    this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
};
```

### Provider which adds 'PatternValidator' to the 'NG_VALIDATORS' multi-provider list.

```javascript
var PatternValidator = /** @class */ (function () {
    function PatternValidator() {
    }
    /**
     * Method that validates whether the value matches the
     * pattern requirement.
     */
    PatternValidator.prototype.validate = function (control) {
        return this._validator(control);
    };
    /**
     * Registers a callback function to call when the
     * validator inputs change.
     *
     * @param fn The callback function
     */
    PatternValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn;
    };
    return PatternValidator;
}());
```

### PatternValidator

```javascript
PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }
```

### Provider which adds 'PatternValidator' to the 'NG_VALIDATORS' multi-provider list.

```javascript
var PatternValidator = /** @class */ (function () {
    function PatternValidator() {
    }
    /**
     * Method that validates whether the value matches the
     * pattern requirement.
     */
    PatternValidator.prototype.validate = function (control) {
        return this._validator(control);
    };
    /**
     * Registers a callback function to call when the
     * validator inputs change.
     *
     * @param fn The callback function
     */
    PatternValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn; }
    return PatternValidator;
}());
```

### PatternValidator

```javascript
PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }
```

### PatternValidator

```javascript
PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }
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PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }
```

### PatternValidator

```javascript
PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }
```
SHARED_FORM_DIRECTIVES,

return InternalFormsSharedModule;

@return * 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 * @param options Configurations object for the `FormGroup`. The object can have two shapes:

- * `AbstractControlOptions` object (preferred), which consists of:
  - * `validators`: A synchronous validator function, or an array of validator functions
  - * `asyncValidators`: A single async validator or array of_async validator functions
  - * `updateOn`: The event upon which the control should be updated (options: `change` | `blur` | `submit`)

- Legacy configuration object, which consists of:
  - * `validator`: A synchronous validator function, or an array of validator functions
  - * `asyncValidator`: A single async validator or array of_async validator functions

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 != 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 return new FormGroup(controls, { validators: validators, asyncValidators: asyncValidators, updateOn: updateOn, validators: validators });
};

/**
 * Creates a new `FormControl` with the given state, validators and options.
 * @param asyncValidator A single async validator or array of async validator functions
 * @param validator A synchronous validator function, or an array of validator functions
 * @param updateOn The event upon which the control should be updated (options: `change` | `blur` | `submit`)...
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 asyncValidator = controlConfig.length > 2 ?
            controlConfig[2] : null;
        return this.create(control, value, validator, asyncValidator);
    } else {
        return this.create(controlConfig);
    }
}

/**
 * @publicApi
 * @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 VERSION = new core.Version('9.0.7');

/**
 * Exports the required providers and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 * * @see [Reactive Forms Guide](/guide/reactive-forms)
 * @publicApi
 */
var ReactiveFormsModule = /** @class */ (function () {
    function ReactiveFormsModule() {
    }
    ReactiveFormsModule = __decorate([core.NgModule({
        declarations: COMPOSITION_BUFFER_MODE
    })], ReactiveFormsModule);
    return ReactiveFormsModule;
})();

/**
 * Generated bundle index. Do not edit.
 */

exports.AbstractControl = AbstractControl;
exports.COMPOSITION_BUFFER_MODE = COMPOSITION_BUFFER_MODE;
exports.CheckboxControlValueAccessor = CheckboxControlValueAccessor;
exports.CheckboxRequiredValidator = CheckboxRequiredValidator;
exports.ControlContainer =
ControlContainer;

exports.DefaultValueAccessor = DefaultValueAccessor;
exports.EmailValidator = EmailValidator;
exports.FormArray = FormArray;
exports.FormArrayName = FormArrayName;
exports.FormBuilder = FormBuilder;
exports.FormControl = FormControl;
exports.FormControlDirective = FormControlDirective;
exports.FormControlName = FormControlName;
exports.FormGroup = FormGroup;
exports.FormGroupDirective = FormGroupDirective;
exports.FormGroupName = FormGroupName;
exports.FormsModule = FormsModule;
exports.MaxLengthValidator = MaxLengthValidator;
exports.MinLengthValidator = MinLengthValidator;
exports.NG_ASYNC_VALIDATORS = NG_ASYNC_VALIDATORS;
exports.NG_VALIDATORS = NG_VALIDATORS;
exports.NG_VALUE_ACCESSOR = NG_VALUE_ACCESSOR;
exports.NgControl = NgControl;
exports.NgControlStatus = NgControlStatus;
exports.NgControlStatusGroup = NgControlStatusGroup;
exports.NgForm = NgForm;
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.Validators = Validators;
exports.InternalFormsSharedModule = InternalFormsSharedModule;
exports.NgNoValidate = NgNoValidate;
exports.NgSelectMultipleOption = NgSelectMultipleOption;
exports.angular_packages_forms_forms_a = SHARED_FORM_DIRECTIVES;
exports.angular_packages_forms_forms_b = TEMPLATE_DRIVEN_DIRECTIVES;
exports.angular_packages_forms_forms_ba = CHECKBOX_REQUIRED_VALIDATOR;
exports.angular_packages_forms_forms_bb = EMAIL_VALIDATOR;
exports.angular_packages_forms_forms_bc = MIN_LENGTH_VALIDATOR;
exports.angular_packages_forms_forms_bd = MAX_LENGTH_VALIDATOR;
exports.angular_packages_forms_forms_be = PATTERN_VALIDATOR;
exports.angular_packages_forms_forms_c = REACTIVE_DRIVEN_DIRECTIVES;
exports.angular_packages_forms_forms_d = InternalFormsSharedModule;
exports.angular_packages_forms_forms_e = CHECKBOX_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_f = DEFAULT_VALUE_ACCESSOR;
exports.angular_packages_forms_forms_g = AbstractControlStatus;
exports.angular_packages_forms_forms_h = ngControlStatusHost;
exports.angular_packages_forms_forms_i = 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


/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

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

/**
 * Defines an interface that acts as a bridge between the Angular forms API and a
 * native element
 * in the DOM.
 * @publicApi
 */
export interface ControlValueAccessor {
  /**
   * 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.
   *
   * @usageNotes
   * ### Write a value to the element
   *
   * The following example writes a value to the
   * native DOM element.
   *
   * ```ts
   * writeValue(value: any): void {
   *   this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
   * }
   * ```
   *
   * @param obj
   * The new value for the element
   */
  writeValue(obj: any): void;

  /**
   * Registers a
   * callback function that is called when the control's value
   * changes in the UI.
   *
   * This method is called by
   */
  ...
the forms API on initialization to update the form\n* model when values propagate from the view to the model.\n*\n* When implementing the `registerOnChange` method in your own value accessor,\n* save the given function so your class calls it at the appropriate time.\n*\n* @usageNotes *\n* Store the change function\n* \n* The following example stores the provided function as an internal method.\n* \n* registerOnChange(fn: (_: any) => void): void \n* \n* When the value changes in the UI, call the registered \n* function to allow the forms API to update itself: \n* \n* host: \n* \n* (change): \n* populateValueAndModel$ \n* \n* \n* @param fn The callback function to \n* call when the value changes. \n* \n* registerOnTouched(fn: any): void \n* \n* When implementing \n* the `registerOnTouched` in your own value accessor, \n* save the given \n* function so your class calls it when the control \n* should be considered \n* blurred or \n* `touched`. \n* \n* @usageNotes *\n* Store the callback function \n* \n* The example following stores the provided function as an internal method. \n* \n* registerOnTouched(fn: any): void \n* \n* On blur (or equivalent), \n* your class should call the registered function to allow \n* the forms API to update itself. \n* \n* host: \n* \n* On blur (or equivalent), \n* your class should call the \n* registered function to allow \n* the forms API to update itself. \n* \n* ```ts \n* \n* host: \n* \n* this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); \n* \n* ```
* \n* @param fn The callback function to \n* call when the value changes. \n* \n* registerOnTouched(fn: any): void \n* \n* When implementing \n* the `registerOnTouched` in your own value accessor, \n* save the given \n* function so your class calls it when the control \n* should be considered \n* blurred or \n* `touched`. \n* \n* @usageNotes *\n* Store the callback function \n* \n* ```ts \n* \n* host: \n* \n* this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); \n* \n* ```
* \n* @param fn The callback function to \n* call when the value changes. \n* \n* registerOnTouched(fn: any): void \n* \n* When implementing \n* the `registerOnTouched` in your own value accessor, \n* save the given \n* function so your class calls it when the control \n* should be considered \n* blurred or \n* `touched`. \n* \n* @usageNotes *\n* Store the callback function \n* \n* ```ts \n* \n* host: \n* \n* this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); \n* \n* ```
* \n* @param fn The callback function to \n* call when the value changes. \n* \n* registerOnTouched(fn: any): void \n* \n* When implementing \n* the `registerOnTouched` in your own value accessor, \n* save the given \n* function so your class calls it when the control \n* should be considered \n* blurred or \n* `touched`. \n* \n* @usageNotes *\n* Store the callback function \n* \n* ```ts \n* \n* host: \n* \n* this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); \n* \n* ```
* \n* @param fn The callback function to \n* call when the value changes. \n* \n* registerOnTouched(fn: any): void \n* \n* When implementing \n* the `registerOnTouched` in your own value accessor, \n* save the given \n* function so your class calls it when the control \n* should be considered \n* blurred or \n* `touched`. \n* \n* @usageNotes *\n* Store the callback function

```ts
registerOnChange(fn: (_: any) => void): void \n\nregisterOnTouched(fn: any): void \n\nsetDisabledState(isDisabled: boolean): void
```
input element.

```javascript
* @param isDisabled The disabled value
*/

setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

//</control_value_accessor>

export class DefaultValueAccessor implements ControlValueAccessor {

  onChange = (_: any) => {};

  onTouched = () => {};

  constructor(
    private _renderer: Renderer2, private _elementRef: ElementRef,
    @Optional() @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean
  ) {
    if (this._compositionMode == null) {
      this._compositionMode = !_isAndroid();
    }
  }

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

  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}
```

The default `ControlValueAccessor` for writing a value and listening to changes on input elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

### Using the default value accessor

The following example shows how to use an input element that activates the default value accessor:

```typescript

const firstNameControl = new FormControl();
```
null * &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

---

Rights Reserved.

---

This class is only used internally in the 'ReactiveFormsModule' and the 'FormsModule'.

---

Import of ValidationErrors from './validators';

---

Import of AbstractControl from '../model';

---

export abstract class AbstractControlDirective {

---

null |

---

'../model';

---

import {ValidationErrors} from './validators';

---

/**
 * @description
 * Base class for control directives.
 * @publicApi
 */

---

export abstract class AbstractControlDirective {

---

* @description

---

A reference to the underlying control.

---

* @returns the control that backs this directive. Most properties fall through to that instance.

---

* @description

---

Reports the value of the control if it is present, otherwise null.

---

* @description

---

Reports whether the value is valid.

---

* @description

---

Reports whether a control is invalid, meaning that an error exists in the input value.

---

* @description

---

Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value.

---

* @description

---

Reports whether the control is pristine, meaning that the user has not yet changed the value in the UI.

---

* @description

---

Reports whether the control is touched, meaning that the user has triggered a 'blur' event on it.

---

* @description

---

Reports the validation status of the control. Possible values include: 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.

---

* @description

---

Returns whether a control is pending, meaning that async validation is occurring and errors are not yet available for the input value.

---

* @description

---

Returns a multicasting observable that emits a validation status whenever it is calculated for the control.

---

* @description

---

Returns whether a control is touched, meaning that the user has triggered a 'blur' event on it.

---

* @description

---

Returns whether the control is dirty, meaning that the user has changed the value in the UI.

---

* @description

---

Returns whether the control is valid. A control is considered valid if no validation errors exist with the current value.

---

* @description

---

Returns whether the control is pristine, meaning that the user has not yet changed the value in the UI.

---

* @description

---

Returns whether the control is touched, meaning that the user has triggered a 'blur' event on it.

---

* @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.

---

* @description

---

Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value.

---

* @description

---

Reports whether the control is pristine, meaning that the user has not yet changed the value in the UI.

---

* @description

---

Reports whether the control is touched, meaning that the user has triggered a 'blur' event on it.

---

* @description

---

Reports whether the control is dirty, meaning that the user has changed the value in the UI.

---

* @description

---

Reports whether the control is invalid, meaning that an error exists in the input value.

---

* @description

---

Reports whether the control is valid. A control is considered valid if no validation errors exist with the current value.

---

* @description

---

Returns whether the control is present, null is returned.

---

* @description

---

Returns whether the control isDirty, meaning that the user has changed the value in the UI.

---

* @description

---

Returns whether the control is invalid, meaning that an error exists in the input value.

---

* @description

---

Returns whether the control is pending, meaning that async validation is occurring and errors are not yet available for the input value.

---

* @description

---

Returns whether the control is present, null is returned.

---

* @description

---

Returns whether the control is dirty, meaning that the user has changed the value in the UI.

---

* @description

---

Returns whether the control is invalid, meaning that an error exists in the input value.

---

* @description

---

Returns whether the control is valid. A control is considered valid if no validation errors exist with the current value.

---

* @description

---

Returns whether the control isDirty, meaning that the user has changed the value in the UI.

---

* @description

---

Returns whether the control is invalid, meaning that an error exists in the input value.

---

* @description

---

Returns whether the control is pending, meaning that async validation is occurring and errors are not yet available for the input value.

---

* @description

---

Returns whether the control is present, null is returned.

---

* @description

---

Returns whether the control isDirty, meaning that the user has changed the value in the UI.

---

* @description

---

Returns whether the control is invalid, meaning that an error exists in the input value.

---

* @description

---

Returns whether the control is valid. A control is considered valid if no validation errors exist with the current value.

---

* @description

---

Returns whether the control isDirty, meaning that the user has changed the value in the UI.

---

* @description

---

Returns whether the control is invalid, meaning that an error exists in the input value.

---

* @description

---

Returns whether the control is invalid, meaning that an error exists in the input value.
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.
   */
  hasError(errorCode: string, path?: string): boolean {
    return this.control ? this.control.hasError(errorCode, path) : false;
  }

  /**
   * @description
   * Returns 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.
   *
   * 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"`
   *
   * @returns error data for that particular error. If the control or error is not present, null is returned.
   */
  getError(errorCode: string, path?: string): any {
    return this.control ? this.control.getError(errorCode, path) : null;
  }
}

/**
 * @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 {AbstractControlDirective} from './abstract_control_directive';
import {Form} from './form_interface';

/**
 * @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 {
  /**
   * @description
   * The name for the control
   */
  name: string|number|null = null;

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

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

/**
 * @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 {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

function unimplemented(): any {
  throw new Error('unimplemented');
}

/**
 * @description
 * A base class that all control `FormControl`-based directives extend. It binds a `FormControl` object to a DOM element.
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * @description
   * The parent form for the control.
   */
  _parent: ControlContainer|null = null;

  /**
   * @description
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor|null = null;

  /**
   * @description
   * The uncomposed array of synchronous validators for the control
   */
  _rawValidators: Array<Validator|ValidatorFn> = [];

  /**
   * @description
   * The uncomposed array of async validators for the control
   */
  _rawAsyncValidators: Array<AsyncValidator|AsyncValidatorFn> = [];

  /**
   * @description
   * The callback method to update the model from the view when requested
   */
  abstract viewToModelUpdate(newValue: any): void;
}

/**
 * @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, Self} from...
'@angular/core';\n\nimport {AbstractControlDirective} from './abstract_control_directive';\n\nimport {ControlContainer} from './control_container';\nimport {NgControl} from './ng_control';\n\nexport class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;

    get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.unouched : 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; }
  \n}
\nexport const ngControlStatusHost = {
  ...
  '[class.ng-untouched]': 'ngClassUntouched',
  ...
};
\n/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes\n * based on control status.
 *
 * @usageNotes
 *
 * ### CSS classes applied
 *
 * * ng-valid
 * * ng-invalid
 * * ng-pending
 * * ng-pristine
 * * ng-dirty
 * * ng-untouched
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({selector: '[formControlName], [ngModel], [formControl]'})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) { super(cd); }
}
\n/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes\n * (valid/invalid/dirty/etc).
 * 
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '[formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm]',
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}
\n/**
 * A regular expression that matches\n * 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 `@example.com`.\n * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and underscore (`_`).)\n */
periods (`.`).

* - A `label` cannot begin or end with a dash (`-`) or a period (`.`).

* - The whole address cannot be longer than 254 characters.

* - A `label` cannot begin or end with a dash (`-`) or a period (`.`).

* - A `label` cannot be longer than 63 characters.

* - The whole address cannot be longer than 254 characters.

* See [this commit](https://github.com/angular/angular.js/blob/commit/f3f5cf72e) for more details.

```javascript
const EMAIL_REGEXP = /^\(?([-.|!#$%&'*+/=?^_`{|}~-]+(?:\.[a-zA-Z0-9-]+)*@[a-zA-Z0-9\[.a-zA-Z0-9\].]*$/;
```

### Implementation

background


This regexp was ported over from AngularJS (see there for git history):

* 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 `label` 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 total address length to exceed 254 characters.

* See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.

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Open Source Used In MSX Managed Device Service Pack 3.9.0  5796

```html
<input pattern="[a-zA-Z \]*">
```
RegExp;  
    let regexStr: string;
    if (typeof pattern === 'string') {
      regexStr = '';

      if (pattern.charAt(0) !== '^') regexStr += '^';

      regexStr += pattern;

      if (pattern.charAt(pattern.length - 1) !== '$') regexStr += '$';

      regex = new RegExp(regexStr, 'n')  
    } else {
      regexStr = pattern.toString();
      regex = pattern;
    }

    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value: string = control.value;
      return regex.test(value) ? null :
                                 {'pattern': {'requiredPattern': regexStr,
                                              'actualValue': value}};
    };

    /**
     * @description
     * Validator that performs no operation.
     *
     * @see `updateValueAndValidity()`
     *
     */
    static nullValidator(control: AbstractControl): ValidationErrors|null { return null; }

    /**
     * @description
     * Compose multiple validators into a single function that returns the
     * union of the individual error maps for the provided control.
     * @returns A validator function that returns an error map with the
     * merged error maps of the validators if the validation check fails, otherwise
     * `null`.
     */
    static compose(validators: ValidatorFn[]): ValidatorFn {
      if (!validators) return null;
      const presentValidators: ValidatorFn[] = validators.filter(isPresent) as any;
      if (presentValidators.length == 0) return null;

      return function(control: AbstractControl) {
        const observables = _executeAsyncValidators(control, presentValidators).map(toObservable);
        return forkJoin(observables).pipe(map(_mergeErrors));
      };
    }

    function isPresent(o: any): boolean {
      return o != null;
    }

    export function toObservable(r: any): Observable<any> {
      const obs = isPromise(r) ? from(r) : r;
      if (!(isObservable(obs))) {
        throw new Error(`Expected validator to return Promise or Observable.`);
      }
      return obs;
    }

    function _executeValidators(control: AbstractControl, validators: ValidatorFn[]): any[] {
      return validators.map(v => v(control));
    }

    function _executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]): any[] {
      return validators.map(v => v(control));
    }

    function _mergeErrors(arrayOfErrors: ValidationErrors[]): ValidationErrors {
      let res: {
        [key: string]: any
      } = {};

      // Not using Array.reduce here due to a Chrome 80 bug
      // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
      arrayOfErrors.forEach((errors: ValidationErrors | null) => {
        res = errors != null ? {...res !, ...errors} : res !;
      });

      return Object.keys(res).length === 0 ? null : res;
    }
number input changes.

* The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives. `*\n
* The following example shows how to use a number input with a reactive form. 

```typescript
const totalCountControl = new FormControl();
```

```typescript
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
```

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

```typescript
this._isSameGroup(controlPair, accessor) {
    if (!controlPair[0].control) return false;
    return controlPair[0].name === accessor.name;
}
```
The registered callback function called when a change event occurs on the input element.

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

@desc Tracks the name of the radio input element.

@desc Tracks the name of the 'FormControl' bound to the directive. The name corresponds to a key in the parent 'FormGroup' or 'FormArray'.

const ageControl = new FormControl();

```

<input type="range" [formControl]="ageControl">

```
class RangeValueAccessor implements ControlValueAccessor {
  onChange = (_) => {};
  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
    this.onChange = this.onTouched = () => {};
  }

  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);
  }
}

/**
 * @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
 */

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 [formGroup]="person">
        <input [(ngModel)]="person.name" name="firstName">
      </div>
    </form>`,

  ngModelWithFormGroup: `
    <div [formGroup]="myGroup">
      <input [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">
    </div>
  `};

import {FormErrorExamples as Examples} from './error_examples';

export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent formGroup directive. You'll want to add a formGroup and pass it an existing FormGroup instance (you can create one in your class). Example:

>${Examples.formControlName}`);
  }

  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a "form" prefix: formGroupName, formArrayName, or formGroup. Option 1: Update the parent to be formGroupName (reactive form strategy)

>${Examples.formGroupName}`);

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

>${Examples.formGroupName}`);

  static groupParentException(): void {
    throw new Error(`formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup 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 and pass it an existing FormGroup instance (you can create one in your class). Example:

>${Examples.formArrayName}`);

  static disabledAttrWarning(): void {
    console.warn(`
      It looks like
`);}}
you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

Example: form = new FormGroup({
  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
  last: new FormControl('Drew', Validators.required)
});

Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.

For more information on this, see our API docs here: https://angular.io/api/forms/.

Example:

```
import {FormBuilder, FormGroup, FormControl, Validators} from '@angular/forms';

export class MyComponent {
  form = new FormGroup({
    first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
    last: new FormControl('Drew', Validators.required)
  });

  ngModelWarning(directiveName: string): void {
    console.warn(`
    It looks like you're using ngModel on the same form field as ${directiveName}. 
    Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.
    `);
  }
}

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

import {Directive, ElementRef, Host, Input, 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 `NgModel` directives.
 *
 * @usageNotes
 *
 * ### Using select controls in a
 * reactive form
 *
 * The following examples show how to use a select control in a reactive form.

```

```
```

Example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'

### 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.

```

```
```

Example forms/ts/selectControl/select_control_example.ts region='Component'

### Customizing option selection

Angular selects options by the return value of the form's `compareWith` method. If `compareWith` is given, Angular selects the option with the highest number of events, regardless of external data changes.

```

```
```

Example

```

```
```
identities when checking for changes. */
  @Input()<\n  set comparesWith(fn: (o1: any, o2: any) => boolean) {
    if (typeof fn !== 'function') throw new Error('compareWith must be a function, but received
    JSON.stringify(fn));
  }
  this.comparingWith = fn;\n  }
  private comparesWith: boolean = true;
  constructor(private renderer: Renderer2, private _elementRef: ElementRef) {
    \n    this._compareWith = fn;\n  }

  /**
   * Sets the "value" property on the input element.
   * The _selectedIndex property is also set if an ID is
   * provided on the option element.\n   * @param value The checked value\n   * @param writeValue(value: any): void\n   * this.value = value;\n   * const id: string = null;\n   * this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);\n   * this.writeValue(valueString = _buildValueString(id, value);\n   * this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);\n   * }\n   *
   * @description\n   * Registers a function called when the control value changes.\n   * @param fn The callback function\n   * @param registerOnChange(fn: (value: any) => void): void\n   * this.onChange = (valueString: string) => {\n   * this.value = this._getOptionValue(valueString);\n   * fn(this.value);\n   * }\n   *
   * @description\n   * Registers a function called when the control is touched.\n   * @param fn The callback function\n   * @param registerOnTouched(fn: () => any): void\n   * this.onTouched = fn;\n   *
   * @description\n   * Sets the "disabled" property on the select input element.\n   * @param isDisabled The disabled value\n   * @param setDisabledState(isDisabled: boolean): void\n   * this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n   * this.writeValue(this.value);\n   *
   * @description\n   * Marks `option` as dynamic, so Angular can be notified when options change.\n   * @see `SelectControlValueAccessor`\n   * @param publicApi *An@Directive(`selector: 'option'`)@Optional()@Host()@Optional()@Private()\n   * @param registerOption(): object \n   * return this._optionMap.get(this.id);\n   * this.writeValue(this.value);\n   * }\n   *
   * @description\n   * ID of the option element. \n   * /TODO(24571): remove ':id': string?url\n   * constructor(url private_element: ElementRef, private renderer: Renderer2, @Optional()@Host()private _select: SelectControlValueAccessor) \n   * if (this._select) this.id = this._select@registerOption();\n   * }\n   * @description\n   * Tracks the value bound to the option element. Unlike the value binding,\n   * @param ngValue supports\n   * binding to objects.\n   * @param @Input('ngValue')@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   *
   * @description\n   * Tracks simple string values bound to the option element.\n   * @param ngValue supports\n   * @param setElementValue(value: string): void\n   * this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);\n   * }\n   *
   * @description\n   * Lifecycle method called before the directive's instance is\n   * destroyed. For internal use only.\n   * @param ngOnDestroy(): void \n   * if (this._select) \n   * this._select.optionMap.delete(this.id);\n   * this._select.writeValue(this._select.value);\n   * }\n   *
   * @license @ Copyright Google Inc. All Rights Reserved.\n   * @license @ Use of this source code is governed by an MIT-style\n   * license that can be found in the LICENSE file at https://angular.io/license
   */

import {Directive, ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, looseIdentical} from '@angular/core';

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

export const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectMultipleControlValueAccessor),
  multi: true
};

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

function _extractId(valueString: string): string {
  return valueString.split(':')[0];
}

Mock interface for HTML Options
*/

interface HTMLOption {
  value: string;
  selected: boolean;
}

interface HTMLCollection {
  // dynamic, as Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notified when options change.\n  // Angular can not be notif...
// TODO(issue/24571): remove '!',

```typescript
/**
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
 * control value changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 * @see SelectControlValueAccessor
 * @usageNotes
 * 
 * ### Using a multi-select control
 * 
 * ```ts
 * const countryControl = new FormControl();
 * ```
 * 
 * ```
 * <select multiple
 * name="countries"
 * [formControl]="countryControl">
 *   <option *ngFor="let country of countries"
 * [ngValue]="country.name">
 *     {{ country.name }}
 *   </option>
 * </select>
 * ```
 * 
 * ### Customizing option selection
 * 
 * To customize the default option comparison algorithm, `<select>` supports `compareWith` input.
 * See the `SelectControlValueAccessor` for usage.

```
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 ReactiveFormsModule
 ***/
@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove '!'.
  id !: string;
  _value: any;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * @description
   * Tracks the value bound to the option element. Unlike the value binding,
   * ngValue supports binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select) {
      this._value = value;
      this._select.writeValue(this._select.value);
    } else {
      this._setElementValue(_buildValueString(this.id, value));
      this._select.writeValue(this._select.value);
    }
  }

  /**
   * @description
   * 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);
    }
  }

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

  /**
   * @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};

/**
 * @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 {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 {FormGroupName} 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);
  dir.valueAccessor!.setDisabledState;if (dir.valueAccessor!.setDisabledState) {
    control.registerOnDisabledChange(() => { dir.valueAccesso!r.setDisabledState(!isDisabled); });
  }

  if (dir.valueAccessor!.registerOnValidatorChange) {
    if ((dir.valueAccessor!._throwError), 'No value accessor for form control with');
  }

  // 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(() =>

  // 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(() =>

// functions and variables

// error messages

// directives

// validators

// interpolation

// types and interfaces

// utilities
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```typescript
ControlValueAccessor|undefined = undefined;

let customAccessor: ControlValueAccessor|undefined = undefined;

valueAccessors.forEach((v: ControlValueAccessor) => {
  if (v.constructor === DefaultValueAccessor) {
    defaultAccessor = v;
  } else if (isBuiltInAccessor(v)) {
    builtinAccessor = v;
  } else if (customAccessor) {
    customAccessor = v;
  }
});

if (builtinAccessor) return builtinAccessor;
if (defaultAccessor) return defaultAccessor;

if (_throwError(dir, 'More than one built-in value accessor matches form control with')) {
  return null;
}

valueAccessors.forEach((v: ControlValueAccessor) => {
  if (v.constructor === DefaultValueAccessor) {
    defaultAccessor = v;
  } else if (isBuiltInAccessor(v)) {
    if (builtinAccessor)
      _throwError(dir, 'More than one built-in value accessor matches form control with');
    builtinAccessor = v;
  } else {
    if (customAccessor)
      _throwError(dir, 'More than one custom value accessor matches form control with');
    customAccessor = v;
  }
});

if (customAccessor) return customAccessor;
if (builtinAccessor) return builtinAccessor;
if (defaultAccessor) return defaultAccessor;

if (_throwError(dir, 'No valid value accessor for form control with')) {
  return null;
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
export function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

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

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {ValidateErrors, ValidatorFn} from './directives/validators';

function coercedefinesValidOrInvalid(validator: ValidatorFn | null): ValidatorFn | null {
  if (validator) return validator;
  return null;
}

function coercedefinesPending(validator: ValidatorFn | null): ValidatorFn | null {
  if (validator) return validator;
  return 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;
}

function coerceToAsyncValidator(
    asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,
    validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn | null {
  if (validatorOrOpts)
    return coercedefinesPending(coerceToValidatorAsyncValidator(validatorOrOpts));
  return null;
}

function coerceToValidator(
    validator?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn | null {
  if (validator)
    return coercedefinesValidOrInvalid(validator);
  return null;
}

function coerceToValidatorAsyncValidator(
    validatorOptions: AbstractControlOptions | null): ValidatorFn | null {
  if (validatorOptions)
    return coercedefinesPending(coerceToValidator(validatorOptions.validators));
  return null;
}
```

---

The list of validators applied to a control.

*An validators?: ValidatorFn[ValidatorFn][]null; **

   */

```
@description
   * The list of async validators applied to control.
   * @returns {AsyncValidatorFn[]} an array of async validators.

   AsyncValidatorFn
   */
   @param {ValidatorFn[]} asyncValidators
   * @param {?} updateOn
   * @param {?} isOptionsObj
   *
   * @returns {boolean} true if the options object is valid, false otherwise.

   function isOptionsObj(): boolean {
     if (validatorOrOpts != null && !Array.isArray(validatorOrOpts) && typeof validatorOrOpts === 'object') {
       return true;
     }
     return false;
   }

   /**
    * 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 {
      /**
       * The current value of the control.
       * @returns {any} the current value of the 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:
        *
        * - **VALID**: This control has passed all validation checks.
        * - **INVALID**: This control has failed at least one validation check.
        * - **PENDING**: This control is in the midst of conducting a validation check.
        * - **DISABLED**: This control is exempt from validation checks.
        *
        * These status values are mutually exclusive, so a control cannot be
        * both valid AND invalid or invalid AND disabled.
        * @returns {string} the validation status of the control.

       /**
        * A control is `pristine` if the user has not yet changed
        * the value in the UI.
        * @returns {boolean} true if the user has not yet changed the value in the UI; compare `dirty`.

       /**
        * A control is `dirty` if the user has changed the value
        * in the UI.
        * @returns {boolean} true if the user has changed the value of this control.
in the UI; compare `pristine`. * Programmatic changes to a control's value do not mark it dirty. * get
dirty(): boolean { return !this.pristine; } *
* True if the control is marked as `touched`. * * A control
is marked `touched` once the user has triggered
a `blur` event on it. *
* 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 or programmatically. It also emits an event each time you call enable() or disable() without

* without passing along `emitEvent: false` as a function argument. *
* public readonly valueChanges {!}: Observable<any>; *
* Reports the update strategy of the `AbstractControl` (meaning

* the event on which the control updates itself). *
* Possible values: `change` | `blur` | `submit` *
* Default value: `change` *
* get updateOn(): FormHooks { return this._updateOn; } *
* Change in the UI; compare `pristine`. * Programmatic changes to a control's value do not mark it dirty. *
* get dirty(): boolean { return !this.pristine; } *
* True if the control is marked as `touched`. * * A control
is marked `touched` once the user has triggered
a `blur` event on it. *
* A control is `untouched` if the user has not yet triggered

* A control's value is changed through the UI; compare `markAsTouched`. *
* get untouched(): boolean { return !this.touched; } *
* A multicasting observable that emits an event every time the validation `status` of the control
recalculates. *
* @see `markAsDirty()`, `markAsTouched()`, `markAsUntouched()`, `markAsPristine()` *
* `@see` `markAsDirty()`, `markAsTouched()`, `markAsUntouched()`, `markAsPristine()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsTouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = true; } *
* gets 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. *
* setValidators(newValidator: ValidatorFn|ValidatorFn[]|null): void { (this

* validator = coerceToValidator(newValidator); }) *
* Empties out the sync validator list. *
* When you add or remove a validator at run time, you must call

* `updateValueAndValidity()` for the new validation to take effect. *
* clearValidators(): void { this.validator = null; } *
* Marks the control as `touched`. A control is touched by focus and

* blur events that do not change the value. *
* `@see` `markAsUntouched()`, `@see` `markAsDirty()`, `@see` `markAsTouched()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsUntouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = false; } *
* Marks the control and all its descendant controls as `touched`. *
* `@see` `markAsTouched()` *
* `markAllAsTouched()`: void { (this.markAsTouched = true); } *
* `forEachChild((control: AbstractControl) => control.markAllAsTouched()); } *
* Marks the control as `untouched`. *
* `@see` `markAsDirty()`, `@see` `markAsTouched()`, `@see` `markAsUntouched()` *
* `@see` `markAsPristine()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsUntouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = false; } *
* Marks the control as `dirty`. A control becomes dirty when

* the control's value is changed through the UI; compare `markAsTouched`. *
* `@see` `markAsTouched()` *
* `@see` `markAsUntouched()` *
* `@see` `markAsPristine()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsUntouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = false; } *
* Marks the control and all its descendant controls as `untouched`. *
* `@see` `markAsTouched()` *
* `markAllAsUntouched()`: void { (this.markAllAsUntouched = true); } *
* `forEachChild((control: AbstractControl) => control.markAllAsUntouched()); } *
* Marks the control as `dirty`. A control becomes dirty when

* the control's value is changed through the UI; compare `markAsTouched`. *
* `@see` `markAsTouched()` *
* `@see` `markAsUntouched()` *
* `@see` `markAsPristine()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsUntouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = false; } *
* Marks the control and all its descendant controls as `dirty`. A control becomes dirty when

* the control's value is changed through the UI; compare `markAsTouched`. *
* `@see` `markAsTouched()` *
* `@see` `markAsUntouched()` *
* `@see` `markAsPristine()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsUntouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = true; } *
* Marks the control and all its descendant controls as `touched`. *
* `@see` `markAsTouched()` *
* `markAllAsTouched()`: void { (this.markAsTouched = true); } *
* `forEachChild((control: AbstractControl) => control.markAllAsTouched()); } *
* Marks the control as `untouched`. *
* `@see` `markAsDirty()`, `@see` `markAsTouched()`, `@see` `markAsUntouched()` *
* `@see` `markAsPristine()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsUntouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = false; } *
* Marks the control and all its descendant controls as `dirty`. A control becomes dirty when

* the control's value is changed through the UI; compare `markAsTouched`. *
* `@see` `markAsTouched()` *
* `@see` `markAsUntouched()` *
* `@see` `markAsPristine()` *
* @param opts Configuration options that determine how the control propagates changes and emits events after

* 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. *
* get markAsUntouched(opts: {onlySelf?: boolean} = {}): void { (this as{touched: boolean}).touched = false; }
ancestors. Default is false.

*\n
markAsDirty(opts: {onlySelf?: boolean} = {}): void {
  (this as{pristine: boolean}).pristine = false;
  if (this._parent & & !opts.onlySelf) {
    this._parent.markAsDirty(opts);
  }
}

/*\n
  * Marks the control as `pristine`. *\n  * If the control has any children, marks all children as `pristine`, *\n  * and recalculates the `pristine` status of all parent's controls. *\n  * @see `markAsTouched()` *\n  * @see `markAsUntouched()` *\n  * @see `markAsDirty()` *\n  */

  markAsDirty(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.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's controls. *\n   * @see `markAsTouched()` *\n   * @see `markAsUntouched()` *\n   * @see `markAsDirty()` *\n   *
   * @param opts Configuration options that determine how the control 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.
   * * `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._parent & & !opts.onlySelf) {
      this._parent._updatePristine(opts);
    }
}

  /**
   * Marks the control as `pending`.
   *
   * A control is pending while the control performs async validation. *\n   * @see `markAsTouched()` *\n   * @see `markAsUntouched()` *\n   * @see `markAsDirty()` *\n   *
   * @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.
   * * `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), the `statusChanges` observable emits an event with the latest status the control is marked pending. *\n   */

  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.markAsPending(opts);
    }
}

  /**
   * Disables the control. This means the control is exempt from validation checks and is excluded from the aggregate value of any parent. Its status is `DISABLED`. *\n   * If the control has children, all children are also disabled. *\n   * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
   * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
   * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled. *\n   */

  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.
    // skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
    if (this as{status: string}).status = DISABLED;
    this._forEachChild((control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent !== false});
    if (this.valueChanges as EventEmitter<any>).emit(this.value);
    if (this.statusChanges as EventEmitter<string>).emit(this.status);
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(true));
  }

  enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    // If parent has been marked artificially dirty we don't want to re-calculate the parent's dirtiness based on the children.
    // const skipStaleCheck = this._parentMarkedDirty(opts.onlySelf);
    if (this as{status: string}).status = VALID;
    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent !== false});
    if (this.valueChanges as EventEmitter<any>).emit(this.value);
    if (this.statusChanges as EventEmitter<string>).emit(this.status);
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(false));
  }

  private _updateAncestors(
      opts: any): void {

    /*\n
      * Configuration options that determine how the control 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.
      * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
      */

    const skipStaleCheck = this._parentMarkedDirty(opts.onlySelf);
    if (this as{status: string}).status = DISABLED;
    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent !== false});
    if (this.valueChanges as EventEmitter<any>).emit(this.value);
    if (this.statusChanges as EventEmitter<string>).emit(this.status);
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(true));
  }

  private _updateAncestors(
      opts: any): void {

    /*\n
      * Configuration options that determine how the control 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.
      * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
      */

    const skipStaleCheck = this._parentMarkedDirty(opts.onlySelf);
    if (this as{status: string}).status = VALID;
    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent !== false});
    if (this.valueChanges as EventEmitter<any>).emit(this.value);
    if (this.statusChanges as EventEmitter<string>).emit(this.status);
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(false));
  }

  private _updateAncestors(
      opts: any): void {

    /*\n
      * Configuration options that determine how the control 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.
      * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
      */

    const skipStaleCheck = this._parentMarkedDirty(opts.onlySelf);
    if (this as{status: string}).status = DISABLED;
    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent !== false});
    if (this.valueChanges as EventEmitter<any>).emit(this.value);
    if (this.statusChanges as EventEmitter<string>).emit(this.status);
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(true));
  }

  private _updateAncestors(
      opts: any): void {

    /*\n
      * Configuration options that determine how the control 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.
      * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
      */

    const skipStaleCheck = this._parentMarkedDirty(opts.onlySelf);
    if (this as{status: string}).status = VALID;
    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent !== false});
    if (this.valueChanges as EventEmitter<any>).emit(this.value);
    if (this.statusChanges as EventEmitter<string>).emit(this.status);
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(false));
  }
```typescript
/**
 * @param parent
 * Sets the parent of the control
 */
setParent(parent: FormGroup | FormArray): void {
  this._parent = parent;
}

/**
 * Sets the value of the control. Abstract method (implemented in sub-classes).
 */
setValue(value: any, options?: Object): void;

/**
 * Patches the value of the control. Abstract method (implemented in sub-classes).
 */
patchValue(value: any, options?: Object): void;

/**
 * Resets the control. Abstract method (implemented in sub-classes).
 */
reset(value?: any, options?: Object): void;

/**
 * Recalculates the value and validation status of the control. Abstract method (implemented in sub-classes).
 */
updateValueAndValidity(opts: {
  onlySelf?: boolean,
  emitEvent?: boolean,
  skipPristineCheck?: boolean}) {
  if (this._parent && !opts.onlySelf) {
    this._parent.updateValueAndValidity(opts);
    if (!opts.skipPristineCheck) {
      this._parent._updatePristine();
    }
    this._parent._updateTouched();
  }
}

/**
 * Reports error data for the control with the given path.
 */
addErrorDetails(path: string, details: any): void;
```

---

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S810
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`

A period-delimited list of control names that designates how to move from the current control to the control that should be queried for errors.

```javascript
getError(errorCode: string, path?: Array<string|number>|string): any {
  const control = path ? this.get(path) : this;
  return control && control.errors ? control.errors[errorCode] : null;
}
```

```javascript
hasError(errorCode: string, path?: Array<string|number>|string): boolean {
  return !!this.getError(errorCode, path);
}
```

```javascript
root(): AbstractControl {
  let x: AbstractControl = this;

  while (x._parent) {
    x = x._parent;
  }

  return x;
}
```

```javascript
_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {
  if (isOptionsObj(opts) && (opts as AbstractControlOptions).updateOn != null) {
    opts as AbstractControlOptions.
  }
```
events.

* @see `AbstractControl`

* @see [Reactive Forms Guide](guide/reactive-forms)

* @see [Usage Notes](guide/usage-notes)

### Initializing Form Controls

```ts
new FormControl('some value');
```

The following example initializes the control with a form state object. The `value` and `disabled` keys are required in this case:

```ts
new FormControl({ value: 'n/a', disabled: true });
```

### Disabling a control

```ts
new FormControl('', Validators.required).
```

### The form control

```ts
new FormControl('', { updateOn: 'blur' });
```

### Reset the control

```ts
new FormControl('Nancy');
```

```ts
reset({ value: 'Drew', disabled: true });
```

### Public API

```ts
export class FormControl extends AbstractControl {
  /** @internal */
  _onChange: Function[] = [];

  /**
   * 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 options.
   *
   * @param asyncValidator A single async validator or array of async validator functions
   */
  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});
    this._initObservables();
  }

  /**
   * Sets a new value for the form control.
   *
   * @param value The new value for the control.
   * @param options Configuration options that determine how the control propagates
   * changes to and emits events when the value changes.
   * The configuration options are passed to the `updateValueAndValidity` method.
   * @link AbstractControl#updateValueAndValidity
   *
   * @param onlySelf: true, onlySelf
   * @param emitEvent: false
   */
  setValue(value: any,
           options: {
              onlySelf?: boolean,
              emitEvent?: boolean,
              emitModelToViewChange?: boolean,
              emitViewToModelChange?: boolean
            } = {}): void {
    (this as {value: any}).value = this._pendingValue = value;
    if (this._onChange.length && options.emitModelToViewChange !== false) {
      this._onChange.forEach((changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));
    }
    this.updateValueAndValidity(options);
  }
```
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.

**Reset form control, marking it `pristine` and `untouched`, and setting the value to null.**

- *onParam options* Configuration options that determine how the control propagates changes and emits events after the value changes.

  - `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false`.

- *emitEvent*: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

- *When false, no events are emitted.*

- *@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 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.*

### Create a form group with 2 controls

```javascript
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'
```

### 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' });
```

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' });
```

### Set the complete value for the form group

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

### Configuration options

The configuration options are passed to the method which sets the value of the control. If you exclude a value for a control that does exist, it is not set.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

### Configuration options

The configuration options are passed to the method which sets the value of the control. If you exclude a value for a control that does exist, it is not set.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```
control value is updated.
* When false, no events are emitted.
* `setValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void` updates 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.
* `patchValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void` patches the value of the `FormGroup`. It accepts an object with control names as keys, and does its best to match the values to the correct controls in the group.
* When false, no events are emitted.
* `reset(value: any = {}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void` resets the `FormGroup`, marks all descendants are marked `pristine` and `untouched`, and sets the value of all descendants to null.
* resets the `FormGroup`, marks all descendants are marked `pristine` and `untouched`, and sets the value of all descendants to null.

### Reset the form group values
```ts
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```

````
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```

```ts
form.reset({
  first: {value: 'name', disabled: true},
  last: 'last'
});
```

```ts
console.log(this.form.value);  // {first: 'name', last: 'last name'}
```

```ts
console.log(this.form.get('first').status);  // 'DISABLED'
```

```ts
// @link AbstractControl#updateValueAndValidity
* updateValueAndValidity method.

* `updateValueAndValidity(options: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void` updates the value of the `FormGroup`, including any disabled controls. * Retrieves all values regardless of disabled status. * `getInstanceof FormControl ? control.value : (<any>control).getRawValue();` updates the value of the `FormGroup`, including any disabled controls.

### Reset the form group values and disabled status
```ts
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```

```ts
form.reset({
  first: {value: 'name', disabled: true},
  last: 'last'
});
```

```ts
console.log(this.form.value);  // {first: 'name', last: 'last name'}
```

```ts
console.log(this.form.get('first').status);  // 'DISABLED'
```

```ts
// @link AbstractControl#updateValueAndValidity
* updateValueAndValidity method.

* `updateValueAndValidity(options: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void` updates the value of the `FormGroup`, including any disabled controls.
coerceToValidator(validatorOrOpt),
    coerceToAsyncValidator(asyncValidator, validatorOrOpt));

this._initObservables();
this._setupUpdateStrategy(validatorOrOpt); this._setUpControls();

this.updateValueAndValidity({onlySelf: true, emitEvent: false});

* @param index Index in the array to retrieve the control
* @param index Number: AbstractControl { return this.controls[index]; }]
*/

* Insert a new `AbstractControl` at the end of the array.
* @param control Form control to be inserted
* @param control Push the control: AbstractControl: void [

* * * * Insert a new `AbstractControl` at the given `index` in the array.

* Insert(index: number): AbstractControl { return this.controls[index]; }]

* Remove the control at the given `index` in the array.

* @param index Index in the array to insert the control
* @param form control to be inserted

* Insert(index: number, number: AbstractControl): void [

* if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});

* Length of the control array.

* @param newValue 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 options OnlySelf: When true, each change only affects this control, and not its parent. Default: false.
* @param options emitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

* When false, no events are emitted.

* The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.

* @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 options OnlySelf: When true, each change only affects this control, and not its parent. Default: false.
* @param options 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.

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* @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 options OnlySelf: When true, each change only affects this control, and not its parent. Default: false.
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* @param options OnlySelf: When true, each change only affects this control, and not its parent. Default: false.
* @param options 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.

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* @param options 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.

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* @param value Array of latest values for the controls
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* When false, no events are emitted.

* The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.

* @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 options OnlySelf: When true, each change only affects this control, and not its parent. Default: false.
* @param options 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.
number) => {
    if (this.at(index)) {
      if (this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: 
          options.emitEvent})) {
        this.updateValueAndValidity(options);
      }
    } else {
      return;
    }
  }

  updateValueAndValidity(options: {onlySelf?: boolean, emitEvent?: boolean}) {
    if (!options) {
      this._setUpControls();
    }
    this._checkAllValuesPresent(this.value);
    this._allControlsDisabled();
    this._forEachChild((control: AbstractControl, i: number) => {
      if (control.enabled) {
        control.updateValueAndValidity(options);
      }
    });
    this._updateValidityAndValue(options);
    this._throwIfControlMissing(index);
  }

  _setUpControls(): void {
    if (!this.controls.length) {
      return;
    }
    this._forEachChild((control: AbstractControl) => {
      control._registerOnChange((value) => {
        this._checkAllValuesPresent(value);
        this._updateValidityAndValue({onlySelf: true});
      });
    });
  }

  _checkAllValuesPresent(value: any): void {
    if (!value) {
      return;
    }
    for (let i = 0; i < value.length; i++) {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: $i.`);
      }
    }
  }

  _setUpControls(): void {
    if (!this.controls.length) {
      return;
    }
    this._forEachChild((control: AbstractControl) => {
      control._setUpControls();
    });
  }

  _throwIfControlMissing(index: number): void {
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index $index.`);
    }
  }

  _forEachChild(cb: Function): void {
    this.controls.forEach((control: AbstractControl, i: number) => cb(control, i));
  }

  /**
   * The aggregate value of the array, including any disabled controls.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   * Reports all values regardless of disabled status.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   * Reports all values regardless of disabled status.
   * @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: true
   * @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 is reset.
   * When false, no events are emitted.
   * The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
   * @param reset(value: any = []): void {
   *   this._forEachChild((control: AbstractControl, index: number) => {
   *     let arr: FormArray[] = new FormArray([new FormControl(), new FormControl()]);
   *     arr controls.map((control: AbstractControl) => control.value); return;
   *   });
   *   };
   *   void (this: AbstractControl) {
   *     this._setProperty({value: this.value, disabled: true});
   *   }
   */
  _setUpControls(): void {
    if (!this.controls.length) {
      return;
    }
    this._forEachChild((control: AbstractControl) => {
      control._setUpControls();
    });
  }

  _throwIfControlMissing(index: number): void {
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index $index.`);
    }
  }

  _forEachChild(cb: Function): void {
    this.controls.forEach((control: AbstractControl, i: number) => cb(control, i));
  }

  /**
   * The aggregate value of the array, including any disabled controls.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   * Reports all values regardless of disabled status.
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   * Reports all values regardless of disabled status.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   * Reports all values regardless of disabled status.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
return this.controls.length > 0 || this.disabled;
}

private _registerControl(control: AbstractControl) {
  if (control.onCollectionChange) {
    this.controls.push(control);
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }
}

private _registerOnCollectionChange() {
  super._registerOnCollectionChange();
  for (let i = 0; i < this.controls.length; i++) {
    this.controls[i]!.isValid = true;
  }
}

return this.Controls.length > 0 || this.disabled;
}
asyncValidators: any[]) { 
    super(); 
    this.form = 
        new FormGroup({}, composeValidators(validators), composeAsyncValidators(asyncValidators));
  }

  ngAfterViewInit() { this._setUpdateStrategy(); }

  ngSubmit(event: Event): boolean {
    (this as{submitted: boolean}).submitted = true;
    this.resolvedPromise.then(() => {
      this._directives.forEach(dir => dir.control.updateValueAndValidity({emitEvent: false}));
      this._directives.forEach(dir => { <FormControl>this.form.get(dir.path !).setValue(event); });
    });
  }

  onReset() { this.resetForm(); }

  resetForm(value: any = undefined): void { this.form.reset(value);
    (this as{submitted: boolean}).submitted = false;
  }

  private _setUpdateStrategy() {
    if (this.options && this.options.updateOn != null) {
      this.form._updateOn = this.options.updateOn;
    }
  }

  _findContainer(path: string[]): FormGroup {
    path.pop();
    return path.length ? <FormGroup>this.form.get(path) : this.form;
  }
}
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*/

import {FormGroup} from '../model';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

/**
 * @description
 * A base class for code shared
 * between the `NgModelGroup` and `FormGroupName` directives.
 */
export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _parent !: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _validators !: any[];

  /**
   * @description
   * An array of async validators for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered on the instance
   * after the inputs are set.
   * Registers the group with its parent group.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective!.addFormGroup(this);
  }

  /**
   * @description
   * An internal callback method triggered before the instance
   * is destroyed.
   * Removes the group from its parent group.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */
  get control(): FormGroup {
    return this.formDirective!.getFormGroup(this);
  }

  /**
   * @description
   * The path to this group from the
   * top-level directive.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): Form|null { return this._parent ? this._parent.formDirective : null; }

  /**
   * @description
   * The synchronous validators registered with this group.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  /**
   * @description
   * The async validators registered with this group.
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
  }

  /** @internal */
  _checkParentType(): void {
    // TODO(issue/24571): remove '!'.
    this._parent = this._parent ? this._parent.formDirective : null;
  }
}

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 */

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:  Use a regular form tag instead of the formGroup
      directive (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:

      ${Examples.ngModelWithFormGroup'}

      Example:

      ${Examples.formGroupName}
      Option 1: Use formControlName instead of ngModel (reactive strategy):

      ${Examples.formGroupName}
      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):

      ${Examples.ngModelGroup}

      Example:

      ${Examples.ngModelGroup'}

      Example: 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:

      ${Examples.ngModelWithFormGroup'}

      Example:

      ${Examples.formGroupName}
      Option 1: Use formControlName instead of ngModel (reactive strategy):

      ${Examples.formGroupName}
      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):

      ${Examples.ngModelGroup}

      Example:

      ${Examples.ngModelGroup'}

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    `);
  }
}

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

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

import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from

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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.
 * @param {string} *name - This directive can only be used as a child of `NgForm` (within `<form>` tags).
 * @param {string} *description
 * @param {string} *@ngControl
 * Use this directive to validate a sub-group of your form separately from the entire rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
 * @param {string} *@control
 * 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:

```typescript
@Input('ngModelGroup') name!: string;
constructor(
  @Host() @SkipSelf() parent: ControlContainer,
  @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
  @Optional() @Self()
  @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])

  constructor(
    @Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self()
    @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self()
    @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
    validators: any[],
    asyncValidators: any[])
  }

  /** @internal */
  _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
      TemplateDrivenErrors.modelGroupParentException();
    }
  }
}

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 */

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)
};

/**
 * Notes:
 * - this is just one extra run no matter how many `ngModel` have been changed.
 * - this is a general problem when using `exportAs` for directives!
 * - if you have a one-way binding to `ngModel` with `[\[]` syntax, the value in the UI always syncs back to the domain model in your class:
 */

inspect the properties of the associated `FormControl` (like validity state),  
* export the directive into a local  
template variable using `ngModel` as the key (ex: `myVar='ngModel()'`).  
* You then access the control using  
the directive's `control` property,  
* but most properties used (like `valid` and `dirty`) fall through to the control  
anyway for direct access.  

* See a full list of properties directly available in `AbstractControlDirective`.  

### `RadioControlValueAccessor`  
* @see `SelectControlValueAccessor`  
* @see `usageNotes`  
*  

Using ngModel on a standalone control
* The following examples show a simple standalone control using  
`ngModel`  
* When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute  
so that the control can be registered with the parent form under that name.  
* In the context of a parent form, it's often  
unnecessary to include one-way or two-way binding,  
* as the parent form syncs the value for you. You access its  
properties by exporting it into a local template variable using `ngForm` such as (`#f=ngForm()`). Use the  
variable where `*` needed on form submission.  
* If you do need to populate initial values into your form,  
using a one-way binding for `*` `ngModel` tends to be sufficient as long as you use the exported form's value  
rather `*` than the domain model's value on submit.  

* The following examples show controls using `ngModel` within a form:

```
### Using ngModel on a standalone control
*  
* The following examples show a simple standalone control using  
`ngModel` within a form:

```

* When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute  
* so that the control can be registered with the parent form under that name.  

### Using ngModel within a form
*  
* The following example shows controls using `ngModel` within a form:

```

### Using a standalone ngModel
*  
* 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.  
*  
```

### Setting the ngModel name attribute through options
*  
* The following example shows you an alternate way to set the name attribute. The name attribute is used  
within a custom form component, and the name `@Input` property serves a different purpose.  
*  
* The `@Example` demonstrates how to set the name attribute:

```
```
&;& !this.control.disabled) {\n  this.control.disable();\n} else if (!isDisabled & &
this.control.disabled) {\n  this.control.enable();\n} \n} \n}\n}};\n}\n};\n\n/**
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 * found in the LICENSE file at https://angular.io/license
 */

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

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.\n * `novalidate` is used to disable user's native form validation.\n * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute to all forms by default.\n * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

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 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and
 * formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.\n * 
 * @see 
 * [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single
 * form control
 * 
 * The following examples shows how to register a standalone control and set its value.\n * Now deprecated:
 *
 * ```html
 * <input [formControl]='control' [(ngModel)]='value'>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons. First, developers have found
 * this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it\n * is an input/output property named `ngModel` on the reactive form directive that simply\n * approximates (some of) its behavior. Specifically, it allows getting/setting the value\n * and intercepting value events. However, some of
 * `ngModel`'s other features - like\n * delaying updates with `ngModelOptions` or exporting the directive - simply
 * don't work,\n * which has understandably caused some confusion.\n * In addition, this pattern mixes template-driven and reactive forms strategies, which\n * we generally don't recommend because it doesn't take advantage of
 * the full benefits of\n * either strategy. Setting the value in the template violates the template-agnostic\n * principles
 * behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in\n * the class removes the convenience of defining forms in the template.\n * To update your code before support is removed, you'll want to decide
 * whether to stick\n * with reactive form directives (and get/set values using reactive forms patterns) or\n * switch
 * over to template-driven directives.\n * After (choice 1 - use reactive forms):\n * switch to template-driven directives.\n * After (choice 2 - use template-driven forms):\n */

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*/
used as the code is being updated.

```typescript
/**
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 */

import {Directive, EventEmitter, Inject, Input, 
OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS, 
Optional} from '@angular/core';

@Directive({
  selector: '[formControl]',
  providers: [FormControlBinding, exportAs: 'ngForm']
})
@exportAs('ngControl')
export class FormControlDirective extends NgControl implements OnChanges {
  viewModel: any;
  form: FormControl;

  constructor(@Optional() @Self() @Inject(NG_VALIDATORS)
              validators: Array<Validator|ValidatorFn>,
              @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
              asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
              @Optional() @Self() @Inject(NG_VALUE_ACCESSOR)
              valueAccessors: ControlValueAccessor[],
              @Optional()
              @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {
    super();
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState!(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
      this.viewModel = this.model;
    }
  }

  get path(): string[] { return []; }

  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  get asyncValidator(): AsyncValidatorFn|null { return composeAsyncValidators(this._rawAsyncValidators); }

  get control(): FormControl { return this.form; }

  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.valueAccessor!.setValue(newValue);
  }

  private _isControlChanged(changes: {[key: string]: any}): boolean {
    return changes.hasOwnProperty('form');
  }
}
```

---

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Validators) from './validators';
import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {ActiveErrors} from './reactive_errors';
import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

import {FormControlName} from './form_control_name';
import {FormArrayName, FormGroupName} from './form_group_name';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 * This directive accepts an existing `FormGroup` instance. It will then use this
 * instance to match any child `FormControl`, `FormGroup`, `FormArray` instances to child
 * `FormControlName`, `FormGroupName`, and `FormArrayName` directives.
 * The following example registers a `FormGroup` with first name and last name controls, and
 * listens for the *ngSubmit* event when the button is clicked.
 */
@Directive({
  selector: '[formGroup]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  exportAs: 'ngForm'
})
export class FormGroupDirective extends ControlContainer implements Form, OnChanges {
  /**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _oldForm !: FormGroup;

  /**
   * @description
   * Tracks the list of added `FormGroupName` instances.
   */
  directives: FormGroupName[] = [];

  /**
   * @description
   * Tracks the `FormGroup` bound to this directive.
   */
  @Input('formGroup') form: FormGroup = null !;

  /**
   * @description
   * Emits an event when the form submission has been triggered.
   */
  @Output() ngSubmit = new EventEmitter();

  constructor(
      @Optional() @Self() @Inject(NG_VALIDATORS) private _validators: any[] = [],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[] = []) {
    super();
  }

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  /**
   * Returns this directive's instance.
   */
  get formDirective(): Form { return this; }

  /**
   * Returns the `FormGroup` bound to this directive.
   */
  get control(): FormGroup { return this.form; }

  /**
   * 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: any = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  /**
   * Retrieves the `FormGroup` instance.
   * @param dir The `FormGroupName` directive instance.
   */
  getFormGroup(dir: FormGroupName): void {
    const ctrl = this.form.get(dir.path);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  /**
   * Removes the `FormGroupName` instance.
   * @param dir The `FormGroupName` directive instance.
   */
  removeFormGroup(dir: FormGroupName): void {
    removeDir<FormGroupName>(this.directives, dir);
  }

  /**
   * Retrieves the `FormGroup` for a provided `FormGroupName` directive instance.
   * @param dir The `FormGroupName` directive instance.
   */
  getFormGroupName(dir: FormGroupName): FormGroup {
    return this.form.get(dir.path);
  }

  /**
   * No-op method to remove the form group.
   * @param dir The `FormGroupName` directive instance.
   */
  removeFormGroup(dir: FormGroupName): void {
    removeDir<FormGroupName>(this.directives, dir);
  }

  /**
   * This method is called when the form is submitted.
   * @param formGroup The `FormGroup` instance.
   */
  onSubmit(formGroup: FormGroup): void {
    this.submitted = true;
  }

  /**
   * This method is called when the form is reset.
   * @param formGroup The `FormGroup` instance.
   */
  onReset(formGroup: FormGroup): void {
    this.submitted = false;
  }

  /**
   * Checks if the form is present.
   */
  _checkFormPresent(): void {
    const formGroup = this.form;
    if (formGroup) {
      this._oldForm = formGroup;
    } else {
      this._oldForm = null;
    }
  }

  /**
   * Updates the form group's value.
   */
  _updateDomValue(): void {
    const formGroup = this.form;
    if (formGroup) {
      this._updateFormGroupDirectives(formGroup);
    }
  }

  /**
   * Updates the form group's directives.
   * @param formGroup The `FormGroup` instance.
   */
  _updateFormGroupDirectives(formGroup: FormGroup): void {
    const formGroupDirectives = formGroup.directives;
    for (let i = 0; i < formGroupDirectives.length; i++) {
      const formGroupDirective = formGroupDirectives[i];
      if (formGroupDirective instanceof FormGroupDirective) {
        formGroupDirective.onReset();
      }
    }
  }

  /**
   * Updates the form group's validators.
   * @param formGroup The `FormGroup` instance.
   */
  _updateValidators(): void {
    const formGroup = this.form;
    if (formGroup) {
      this._validators.forEach(validator => {
        formGroup.addAsyncValidator(validator); (Component)\n
  Open Source Used In MSX Managed Device Service Pack 3.9.0  5827
*An `FormGroup` directive instance to the form.

* An `@param` directive The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * The FormArrayName directive instance.

* An `removeFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An ` addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.

* An `addFormArray(dir: FormGroupName): void` 

  * @param `dir` The 'FormArrayName' directive instance.

* An `getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }` 

  * `dir` @param `dir` The 'FormArrayName' directive instance.
within the group using dot syntax. 

```ts
this.form.get('name.first');
```

* `FormGroup`'s name is The following example registers a nested `name` `FormGroup` within an existing `FormGroup`, name and provides methods to retrieve the nested `FormGroup` and individual controls.

```typescript
{ @example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'}
```

* `FormGroup`'s name is Accepts a name as a string or a number. * `FormGroup`'s name is while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormGroup`.

TODO(issue/24571): remove `!

* `FormGroup`'s name is Accepts a name as a string or a number. * `FormGroup`'s name is while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormGroup`.

TODO(issue/24571): remove `!

* `FormGroup`'s name is Accepts a name as a string or a number. * `FormGroup`'s name is while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormGroup`.

TODO(issue/24571): remove `!

* `FormGroup`'s name is Accepts a name as a string or a number. * `FormGroup`'s name is while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormGroup`.

TODO(issue/24571): remove `!

* `FormGroup`'s name is Accepts a name as a string or a number. * `FormGroup`'s name is while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormGroup`.

TODO(issue/24571): remove `!

* `FormGroup`'s name is Accepts a name as a string or a number. * `FormGroup`'s name is while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormGroup`.
Async validator function composed of all the async validators registered with this directive.

```javascript
* 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();
} }
```
of "\"always\"". This may help to track down where in the code the pattern is being used as the code is being updated.\n
```typescript
@Directive({selector: '[formControlName]', providers: [controlNameBinding]}) export class FormControlName extends NgControl
```

implments OnChanges, OnDestroy {\nprivate _added = false;\n/**\n * @description \n * Internal reference to the view model.\n * @viewModel: any;\n */\n@description\n * Tracks the 'FormControl' instance bound to the directive.\n */\n// TODO(issuse/24571): remove '!'.\nreadonly control!: FormControl;\n/**\n * @description \n * Tracks the name of the 'FormControl' bound to the directive.\n * The name corresponds\n * to a key in the parent 'FormGroup' or 'FormArray'.\n */\nAccepts a name as a string or a number.\n * The name in the form of a string is useful for individual forms,\n * while the numerical form allows for form controls to be bound\n * to indices when iterating over controls in a 'FormArray'.\n// TODO(issue/24571): remove !.\n@Input('formControlName') name!: string | number | null;\n/**\n * @description\n * Triggers a warning that this input should not be used with reactive forms.\n */\n@Input('disabled')\nset isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }\n/**\n * @description\n * Static property used to track whether any ngModel warnings have\n * been sent across all instances of FormControlName. Used to support warning config of \"once\".\n * @internal\n */\nstatic _ngModelWarningSentOnce = false;\n/**\n * @description\n * The name of the FormControl bound to the directive.\n */\n@Input('formControlName') name!: string | number | null;\n/**\n * @description\n * Triggers a warning that this input should not be used with reactive forms.\n */\n@Input('disabled')\nset isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }\n/**\n * @description\n * Static property used to track whether any ngModel warnings have\n * been sent across all instances of FormControlName. Used to support warning config of \"once\".\n * @internal\n */\nstatic _ngModelWarningSentOnce = false;\n/**\n * @description\n * The name of the FormControl bound to the directive.\n */\n@Input('formControlName') name!: string | number | null;\n/**\n * @description\n * Triggers a warning that this input should not be used with reactive forms.\n */\n@Input('disabled')\nset isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }\n/**\n * @description\n * Static property used to track whether any ngModel warnings have\n * been sent across all instances of FormControlName. Used to support warning config of \"once\".\n * @internal\n */\nstatic _ngModelWarningSentOnce = false;\n/**\n * @description\n * The name of the FormControl bound to the directive.\n */\n@Input('formControlName') name!: string | number | null;\n/**\n * @description\n * Triggers a warning that this input should not be used with reactive forms.\n */\n@Input('disabled')\nset isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }
```
CustomValidatorDirective implements Validator {
  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': true} as ValidationErrors
  }
}

export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};

@Directive({
  selector:
    ':not([type=checkbox])[required]([formControlName]|],[required]([formControl])'),
  providers: [REQUIRED_VALIDATOR, ...CommonNgModule.ɵmdc2Provider]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Method that performs synchronous validation against the provided control.
   * @param control The control to validate against.
   * @returns A map of validation errors if validation fails, otherwise null.
   */
  validate(control: AbstractControl) {
    if (control.disabled) {
      return null;
    }
    const errors = control.getErrors();
    if (errors) {
      this._onChange();
    }
    return errors;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void {
    this._onChange = fn;
  }

  /**
   * @description
   * A directive that adds the `required` validator to any controls marked with the `required` attribute.
   * The directive is provided with the `NG_VALIDATORS` multi-provider list.
   * @see [Form Validation](guide/form-validation)
   * @publicApi
   */
  @Directive({
    selector: '[required]
  })
  export class CheckboxRequiredValidator {
    // TODO(issue/24571): remove '!'.
    private _required !: boolean;
    // TODO(issue/24571): remove '!'.
    private _onChange !: () => void;
get required(): boolean|string { return this._required; } // set required(value:boolean|string) { this._required = value !== null && value !== false && `${value}` !== 'false'; this._onChange = fn; this._onChange(); } // Method that validates whether the control is empty. * Returns the validation result if enabled, otherwise null. * @param fn The callback function. * @param value A Directive that adds the **required** validator to checkbox controls marked with the **required** attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list. * * @see [Form Validation](guide/form-validation) * * Provider which adds `EmailValidator` to the `NG_VALIDATORS` multi-provider list. * * **Description** * * Tracks changes to the email attribute bound to this directive. * * Returns the validation result if enabled, otherwise null. * @param fn The callback function to call when the validator inputs change. * * Registers a callback function to call when the validator inputs change. * * A function that emits a Promise or observable that emits validation errors if present, otherwise null. * * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null. * * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null. * * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null. * * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null. * * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null. * * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null. * * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null. * * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null. * * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null. * * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null.
marked with `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

```typescript
@Directive({
  selector: '[minlength][formControlName], [minlength][formControl], [minlength][ngModel]',
  providers: [MIN_LENGTH_VALIDATOR],
  host: {'[attr.minlength]': 'minlength ? minlength : null'}
})
export class MinLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange!: () => void;

  /**
   * Tracks changes to the the minimum length bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Validates whether the value meets a minimum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void {
    this._validator = Validators.minLength(
        typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  }
}
```

The following example shows how to add a minimum length validator to an input attached to an `ngModel` binding.

```html
<input name="firstName" ngModel minlength="4">
```
The directive is provided with the `\*ngValidation` multi-provider list.

```html
<input name="firstName" ngModel pattern="[a-zA-Z \]*">
```

### Adding a pattern validator

The following example shows how to add a pattern validator to an input attached to an `ngModel` binding.

```html
<patternValidator host="[{attr.pattern}: pattern ? pattern : null]">\n
@onChanges([\n  private_onChange !: () => \n    this._createValidator(); \n
  registerOnValidatorChange(fn: () => void): void { \n    this._onChange = fn; \n  } \n
  private _createValidator(): void { \n    this._validator = Validators.pattern(this.pattern); \n  } \n])
```

Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
shared_form_directives: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  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
 * 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 {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`, `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) `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
   * @see [Reactive Forms Guide](/guide/reactive-forms)
   */
  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)) {
          validators = options.validators != null ? options.validators : null;
          asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
        } else {
          validators = options['validator'] != null ? options['validator'] : null;
          asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
        }
      }

      return new FormGroup(controls, { validators, asyncValidators, updateOn });
    }

    /**
     * @description
     * Construct a new `FormControl` instance.
     * @param formState Initializes the control with an initial state value, or with a
     * state object that contains both a value and a disabled status.
     * @param
     */
    control(
      formState: any, options: AbstractControlOptions | { [key: string]: any } | null = null):
    FormControl {
      const state = <any>formState;

      if (options != null) {
        if (isAbstractControlOptions(options)) {
        }
      }

      return new FormControl(state);
    }

    /**
     * @description
     * Add a `FormGroup` as a child of the current group.
     * @param
     */
    addControl(
      name: string,
      control: AbstractControl |
      FormGroup |
      FormArray |
      FormControl |
      FormArrayName |
      FormGroupName |
      Constraint): FormArray {
      const controls = this._reduceControls(name);

      let validators: ValidatorFn | ValidatorFn[] | null = null;
      let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
      let updateOn: FormHooks | undefined = undefined;

      if (options != null) {
        if (isAbstractControlOptions(options)) {
          validators = options.validators != null ? options.validators : null;
          asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
        } else {
          validators = options['validator'] != null ? options['validator'] : null;
          asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
        }
      }

      return new FormArray(controls, { validators, asyncValidators, updateOn });
    }

    /**
     * @description
     * Add a `FormGroup` as a child of the current group.
     * @param
     */
    addControlAsArray(
      name: string,
      control: AbstractControl |
      FormGroup |
      FormArrayName |
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.
* `@code-example path=\"forms\ts\FormBuilder_json\" region=\"disabled-control\"\` "
* `@code-example path=\"forms\ts\FormBuilder_json\" region=\"disabled-control\"\`
* @control\` formState: any, validatorOrOpts?:
ValidatorFn`[ValidatorFn][][AbstractControlOptions][]\`null,\`
asyncValidator?:
AsyncValidatorFn`[AsyncValidatorFn][]\`null): FormControl\`
* return new FormControl(formState, validatorOrOpts, asyncValidator):\`
* \`null /** Constructs a new `FormArray` from the given array of
* 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\`
* return new FormArray(controls, validatorOrOpts, asyncValidator):\`
* \`null /** Constructs a new `FormArray` from the given array of
* validators and options.
* \`null const controls = controlsConfig.map(c =>
* this._createControl(c));\`
* return new FormArray(controls, validatorOrOpts, asyncValidator):\`
* \`null /** Constructs a new `FormArray` from the given array of
* validators and options.
* \`null const controls = controlsConfig.map(c =>
* this._createControl(c));\`
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* return new FormArray(controls, validatorOrOpts, asyncValidator):\`
* \`null /** Constructs a new `FormArray` from the given array of
* validators and options.
* \`null const controls = controlsConfig.map(c =>
* this._createControl(c));\`
* return new FormArray(controls, validatorOrOps...
warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders<ReactiveFormsModule>

export * from './index';

export {InternalFormsSharedModule as Êuangar_packages_forms_forms_d,REACTIVE_DRIVEN_DIRECTIVES as Êuangar_packages_forms_forms_c,SHAREd_FORM_DIRECTIVES as Êuangar_packages_forms_forms_a,TEMPLATE_DRIVEN_DIRECTIVES as Êuangar_packages_forms_forms_b} from '/src/directives';

export {CHECKBOX_VALUE_ACCESSOR as Êuangar_packages_forms_forms_d,NUMBER_VALUE_ACCESSOR as Êuangar_packages_forms_forms_e} from '/src/directives/checkbox_value_accessor';

export {DEFAULT_VALUE_ACCESSOR as Êuangar_packages_forms_forms_f} from '/src/directives/default_value_accessor';

export {AbstractControlStatus as Êuangar_packages_forms_forms_g,ngControlStatusHost as Êuangar_packages_forms_forms_h} from '/src/directives/ng_control_status';

export {CHECKBOX_REQUIRED_VALIDATOR as Êuangar_packages_forms_forms_j,EMAIL_VALIDATOR as Êuangar_packages_forms_forms_k,MAX_LENGTH_VALIDATOR as Êuangar_packages_forms_forms_l,PATTERN_VALIDATOR as Êuangar_packages_forms_forms_m,REQUIRED_VALIDATOR as Êuangar Packages_forms_forms_n} from '/src/directives/validators';
Open Source Used In MSX Managed Device Service Pack 3.9.0

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Open Source Used In MSX Managed Device Service Pack 3.9.0
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.

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INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OR CONDITIONS OF TITLE,
FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR NON-INFRINGEMENT.
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### Store the change function

The following example stores the provided function as an internal value accessor, save the given function so your class calls it at the appropriate time.

```typescript
let @usageNotes

// This method is called by the forms API on initialization to update the form model when values change in the value;
```}

```typescript
/**
 * @description
 * Registers a callback function that is called when the control’s value changes in the value;
 */

```}

```typescript
/**
 * @description
 * Writes a new value to the element;
 */

```}

```typescript
/**
 * @description
 * Generates a callback function that is called when the control’s value changes in the value;
 */

```}

```typescript
/**
 * @description
 * Implement this interface to create a custom form control directive that integrates with Angular forms.
 */

```}

```typescript
export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element;
   */
   writeValue(value: any): void;

  ```}

```typescript
```}

```typescript
```}

```typescript
```}

```typescript
```}

```typescript
```}

```typescript
`
`registerOnChange(fn: (_: any) => void): void {
  \n  this._onChange = fn;
}
```

When the value changes in the UI, call the registered function to allow the forms API to update itself:

```ts
\n  * \n  * When the value changes in the UI, call the registered function to allow the forms API to update itself.
  * \n  * `registerOnChange(fn: any): void`\n  * @param fn \n
  The callback function to register.

  ```ts
  \n  * @param fn \n  * \n  * The callback function to register.
  * \n  * `registerOnChange(fn: any): void`\n  * @param fn \n
  The callback function to register.

  ```ts
  \n  * \n  * `registerOnChange(fn: any): void`\n  ```

* 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".

Store the callback function:

```ts
\n  * \n  * Store the callback function:
  * \n  * `registerOnTouched(fn: any): void`\n```

The following example stores the provided function as an internal method:

```ts
\n  * \n  * The following example stores the provided function as an internal method:
  * \n  * `registerOnTouched(fn: any): void`\n```

@param fn The callback function to register

```ts
\n  * \n  * @param fn The callback function to register
  * \n  * `registerOnTouched(fn: any): void`\n```
getDOM) from '@angular/common';

import {Directive, ElementRef, Inject, InjectionToken, Optional, Renderer2, forwardRef} from '@angular/core';

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

export const DEFAULT_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => DefaultValueAccessor),
  multi: true
};

/**
 * We must check whether the agent is Android because composition events
 * behave differently between iOS and Android.
 */

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

/**
 * @description
 * Provide this token to control if form directives buffer IME input until
 * the 'compositionend' event occurs.
 */
export const COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');

/**
 * @description
 * The default `ControlValueAccessor` for writing a value and changing to elements on input
 * controls. The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
 * directives.
 */

@Directive({
  selector: '[input][formControl], textarea[formControl], input[formControl], textarea[ngModel], 
    [ngModel], [ngDefaultControl]',
  host: {
    '(input)': '$any(this)._handleInput($event.target.value)',
    '(blur)': 'onTouched()',
    '(compositionstart)': '$any(this)._compositionStart()',
    '(compositionend)': '$any(this)._compositionEnd($event.target.value)'
  },
  providers: [DEFAULT_VALUE_ACCESSOR]
})

export class DefaultValueAccessor implements ControlValueAccessor {

  /**
   * @description
   * The registered callback function called when an input event
   * occurs on the input element.
   */
  onChange = (_: any) => {};

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

  /**
   * Whether the user is creating a composition string (IME events).
   */
  private _composing = false;

  constructor(
    private _renderer: Renderer2, private _elementRef: ElementRef,
    @Optional() @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean) {
    if (this._compositionMode == null) {
      this._compositionMode = !_isAndroid();
    }
  }

  /**
   * Sets the "value" property on the input element.
   */
  writeValue(value: any): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when the control value
   * changes.
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange(value);
    }
  }

  /** @internal */
  _compositionStart(): void {
    this._composing = true;
  }

  /** @internal */
  _compositionEnd(value: any): void {
    this._composing = false;
    this._compositionMode && this.onChange(value);
  }
}

import {Observable} from 'rxjs';

/**
 * @description
 * Base class for control directives.
 *
 * This class is only used internally in the `ReactiveFormsModule` and the `FormsModule`.
 */
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.

* @param errorCode: string, path?:

  Array<string,number>|string): boolean {

    return this.control ? this.control.hasError(errorCode, path) : false;
  }

  hasError(errorCode: string, path?: Array<string|number>|string): boolean {

    return this.control ? this.control.hasError(errorCode, path) : false;
  }

  /**
   * @description
   * Reports error data for the control with the given path.
   *
   *
   * If the control is not present, false is returned.
   */

  getError(errorCode: string, path?: Array<string|number>|string): any {

    return this.control ? this.control.getError(errorCode, path) : null;
  }

  /**
   * The name of the control
   */

  name: string|number|null = null;

  /**
   * The parent form for the control
   *
   *
   * @internal
   */

  _parent: ControlContainer|null = null;

  /**
   * The name for the control
   */

  name: string|number|null = null;

  /**
   * The value accessor for the control
   */

  valueAccessor: ControlValueAccessor|null = null;

  /**
   * The uncomposed array of synchronous validators for the control
   *
   * @internal
   */

  _rawValidators: Array<Validator|ValidatorFn> = [];

  /**
   * The registered synchronous validator function for the control
   * @throws An exception that this method is not implemented
   */

  get validator(): ValidatorFn|null { return (<ValidatorFn>unimplemented()); }

  /**
   * The registered async validator function for the control
   * @throws An exception that this method is not implemented
   */

  get asyncValidator(): AsyncValidatorFn|null { return (<AsyncValidatorFn>unimplemented()); }

  /**
   * The callback method to update the model from the view when requested
   * @param newValue The new value for the view
   * @param view
   * @returns An exception that this method is not implemented
   */

  get asyncViewToModelUpdate(newValue: any): void {

    // unimplemented();

    return;
  }

  /**
   * 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 {AbstractControlDirective} from './abstract_control_directive';

  import {AbstractControlStatus} from './abstract_control_status';

  abstract viewToModelUpdate(newValue: any): void;

  /**
   * 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
   */

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  import {AbstractControlDirective} from './abstract_control_directive';

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  import {AbstractControlDirective} from './abstract_control_directive';

  import {AbstractControlStatus} from './abstract_control_status';

  import {AbstractControlDirector
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; }

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form
 * controls that sets CSS classes
 * based on control status.
 *
 * @usageNotes
 *
 * The following classes are applied as the properties become true:
 * * ng-valid
 * * ng-invalid
 * * ng-dirty
 * * ng-pending
 * * ng-pristine
 * * ng-untouched
 *
 * @ngModule ReactFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({selector: '[formControlName], [ngModel], [formControl]'})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) { super(cd); }
}

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes
 * based on control status (valid/invalid/dirty/etc).
 *
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '[formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm],
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

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

import {InjectionToken, isObservable, isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * @description
 * An `InjectionToken` for registering additional
 * synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @usageNotes
 *
 * ### Providing a custom validator
 *
 * The following example registers a custom validator
directive. Adding the validator to the
* existing collection of validators requires the `multi: true` option.

```typescript
@Directive({
  selector: ['customValidator'],
  providers: [(provide: NG_VALIDATORS,
    useExisting: CustomValidatorDirective, multi: true)]
})
class CustomValidatorDirective implements
Validator {
  validate(control: AbstractControl): ValidationErrors | null {
    return { 'custom': true };
  } ...
}
```
 *
 * @publicApi
 */
export const NG_VALIDATORS = new
InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * @description
 * An `InjectionToken` for
 * registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS =
    new
InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches
 * valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format
 * `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and 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 (`.`).
 * - The whole address cannot be longer than 254 characters.
 *
 * In practice:
 * - Alphanumeric characters
 * - Periods (`.`)
 * - 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 (`.`).
 * - The whole address cannot be longer than 254 characters.
 *
 * 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
 */
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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 total address length to exceed 254 characters. * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details. * /\ const EMAIL_REGEXP = /\^[a-zA-Z0-9#%&'*+/=?^_`{|}~-]+(?:\.[a-zA-Z0-9#%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]*[.][a-zA-Z]{2,}|[.][a-zA-Z]{2,})/; * * See [Form Validation](https://guide/form-validation) * @publicApi * /\ const emailValidator = * @description * Validator that requires the control's value to be greater than or equal to the provided number. * The validator exists only as a function and not as a directive. * @usageNotes * ### Validate against a minimum of 3

```typescript
const control = new FormControl(2, Validators.min(3));

console.log(control.errors); // {min: {min: 3, actual: 2}}
```

* @returns A validator function that returns an error map with the * `min` property if the validation check fails, otherwise `null`. * @see `updateValueAndValidity()` * /\ const static(min: number): boolean;

```typescript
const control = new FormControl('', Validators.min(15));

console.log(control.errors); // {max: {max: 15, actual: 16}}
```

* @returns An error map with the `max` property if the validation check fails, otherwise `null`. * @see `updateValueAndValidity()` * /\ const control = new FormControl('', Validators.max(15));

```typescript
const control = new FormControl('', Validators.requiredTrue);

console.log(control.errors); // {required: true}
```

* @returns An error map with the `required` property set to `true` if the validation check fails, otherwise `null`. * @see `updateValueAndValidity()` * /\ const control = new FormControl('', Validators.required);

```typescript
const control = new FormControl('', Validators.required);

console.log(control.errors); // {required: true}
```

* @returns An error map with the `required` property set to `true` if the validation check fails, otherwise `null`. * @see `updateValueAndValidity()` * /\ const control = new FormControl('', Validators.requiredFalse);

```typescript
const control = new FormControl('', Validators.requiredFalse);

console.log(control.errors); // {required: false}
```

* @returns An error map with the `required` property set to `false` if the validation check fails, otherwise `null`. * @see `updateValueAndValidity()` * /\ const control = new FormControl('', Validators.required);
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```typescript
export const Validators = {
  pattern: (pattern: string | RegExp): ValidatorFn => {
    if (!pattern) return Validators.nullValidator;
    let regex: RegExp = pattern;
    if (typeof pattern === 'string') {
      regex = new RegExp(pattern, '');
    } else if (pattern instanceof RegExp) {
      // Already a RegExp
    } else {
      console.log('Invalid pattern type', pattern);
      return null;
    }
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const length: number = control.value.length;
      if (length < minLength) return
          {'minlength': {'requiredLength': minLength, 'actualLength': length}};
      if (length > maxLength) return
          {'maxlength': {'requiredLength': maxLength, 'actualLength': length}};
      return EMAIL_REGEXP.test(control.value) ? null : {
        'email': true,
      };
    }
  },

  email: (control: AbstractControl): ValidationErrors|null {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const length: number = control.value.length;
    if (length < minLength) return
        {'minlength': {'requiredLength': minLength, 'actualLength': length}};
    if (length > maxLength) return
        {'maxlength': {'requiredLength': maxLength, 'actualLength': length}};
    return EMAIL_REGEXP.test(control.value) ? null : {
      'email': true,
    };
  },

  minLength: (minLength: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const length: number = control.value.length;
      if (length < minLength) return
          {'minlength': {'requiredLength': minLength, 'actualLength': length}};
      return null;  // don't validate empty values to allow optional controls
    }
  },

  maxLength: (maxLength: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const length: number = control.value.length;
      if (length > maxLength) return
          {'maxlength': {'requiredLength': maxLength, 'actualLength': length}};
      return null;  // don't validate empty values to allow optional controls
    }
  },

  requiredLength: (requiredLength: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const length: number = control.value.length;
      if (length < requiredLength) return
          {'requiredLength': {'requiredLength': requiredLength, 'actualLength': length}};
      return null;  // don't validate empty values to allow optional controls
    }
  },

  requiredPattern: (requiredPattern: string): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const length: number = control.value.length;
      if (length < requiredPattern.length) return
          {'requiredPattern': {'requiredPattern': requiredPattern, 'actualValue': control.value}};
      return null;  // don't validate empty values to allow optional controls
    }
  },

  requiredEmail: (requiredEmail: boolean): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const length: number = control.value.length;
      if (!requiredEmail) return null;  // don't validate empty values to allow optional controls
      if (!EMAIL_REGEXP.test(control.value)) return
          {'email': true};
    }
  },

  minPattern: (minPattern: string): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const length: number = control.value.length;
      if (length < minPattern.length) return
          {'minPattern': {'requiredPattern': minPattern, 'actualValue': control.value}};
      return null;  // don't validate empty values to allow optional controls
    }
  },

  maxPattern: (maxPattern: string): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const length: number = control.value.length;
      if (length > maxPattern.length) return
          {'maxPattern': {'requiredPattern': maxPattern, 'actualValue': control.value}};
      return null;  // don't validate empty values to allow optional controls
    }
  },

  pattern: (pattern: string | RegExp): ValidatorFn => {
    if (!pattern) return Validators.nullValidator;
    let regex: RegExp = pattern;
    if (typeof pattern === 'string') {
      regex = new RegExp(pattern, '');
    } else if (pattern instanceof RegExp) {
      // Already a RegExp
    } else {
      console.log('Invalid pattern type', pattern);
      return null;
    }
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const length: number = control.value.length;
      if (length < minLength) return
          {'minlength': {'requiredLength': minLength, 'actualLength': length}};
      if (length > maxLength) return
          {'maxlength': {'requiredLength': maxLength, 'actualLength': length}};
      return EMAIL_REGEXP.test(control.value) ? null : {
        'email': true,
      };
    }
  },

  email: (control: AbstractControl): ValidationErrors|null {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const length: number = control.value.length;
    if (length < minLength) return
        {'minlength': {'requiredLength': minLength, 'actualLength': length}};
    if (length > maxLength) return
        {'maxlength': {'requiredLength': maxLength, 'actualLength': length}};
    return EMAIL_REGEXP.test(control.value) ? null : {
      'email': true,
    };
  },

  minLength: (minLength: number): ValidatorFn {
    return (control:

```
return null; // don't validate empty values to allow optional controls\n
}\n
const value: string =
control.value;\n
return regex.test(value) ? null :\n
{'pattern': {'requiredPattern': regexStr,
'actualValue': value}};\n };\n }\n\n /**\n * @description\n * Validator that performs no operation.\n *\n *
@see `updateValueAndValidity()`\n *\n */\n static nullValidator(control: AbstractControl): ValidationErrors|null
{ return null; }\n\n /**\n * @description\n * Compose multiple validators into a single function that returns the
union\n * of the individual error maps for the provided control.\n *\n * @returns A validator function that
returns an error map with the\n * merged error maps of the validators if the validation check fails, otherwise
`null`.\n *\n * @see `updateValueAndValidity()`\n *\n */\n static compose(validators: null): null;\n static
compose(validators: (ValidatorFn|null|undefined)[]): ValidatorFn|null;\n static compose(validators:
(ValidatorFn|null|undefined)[]|null): ValidatorFn|null {\n if (!validators) return null;\n const presentValidators:
ValidatorFn[] = validators.filter(isPresent) as any;\n if (presentValidators.length == 0) return null;\n\n return
function(control: AbstractControl) {\n return _mergeErrors(_executeValidators(control, presentValidators));\n
};\n }\n\n /**\n * @description\n * Compose multiple async validators into a single function that returns the
union\n * of the individual error objects for the provided control.\n *\n * @returns A validator function that
returns an error map with the\n * merged error objects of the async validators if the validation check fails,
otherwise `null`.\n *\n * @see `updateValueAndValidity()`\n *\n */\n static composeAsync(validators:
(AsyncValidatorFn|null)[]): AsyncValidatorFn|null {\n if (!validators) return null;\n const presentValidators:
AsyncValidatorFn[] = validators.filter(isPresent) as any;\n if (presentValidators.length == 0) return null;\n\n
return function(control: AbstractControl) {\n
const observables = _executeAsyncValidators(control,
presentValidators).map(toObservable);\n return forkJoin(observables).pipe(map(_mergeErrors));\n };\n
}\n}\n\nfunction isPresent(o: any): boolean {\n return o != null;\n}\n\nexport function toObservable(r: any):
Observable<any> {\n const obs = isPromise(r) ? from(r) : r;\n if (!(isObservable(obs))) {\n throw new
Error(`Expected validator to return Promise or Observable.`);\n }\n return obs;\n}\n\nfunction
_executeValidators(control: AbstractControl, validators: ValidatorFn[]): any[] {\n return validators.map(v =>
v(control));\n}\n\nfunction _executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]):
any[] {\n return validators.map(v => v(control));\n}\n\nfunction _mergeErrors(arrayOfErrors: ValidationErrors[]):
ValidationErrors|null {\n let res: {[key: string]: any} = {};\n\n // Not using Array.reduce here due to a Chrome 80
bug\n // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982\n arrayOfErrors.forEach((errors:
ValidationErrors | null) => {\n res = errors != null ? {...res !, ...errors} : res !;\n });\n\n return
Object.keys(res).length === 0 ? null : res;\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 {AbstractControl} from '../model';\nimport {AsyncValidator,
AsyncValidatorFn, Validator, ValidatorFn} from './validators';\n\nexport function normalizeValidator(validator:
ValidatorFn | Validator): ValidatorFn {\n if ((<Validator>validator).validate) {\n return (c: AbstractControl) =>
(<Validator>validator).validate(c);\n } else {\n return <ValidatorFn>validator;\n }\n}\n\nexport function
normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator):\n AsyncValidatorFn {\n if
((<AsyncValidator>validator).validate) {\n return (c: AbstractControl) =>
(<AsyncValidator>validator).validate(c);\n } else {\n return <AsyncValidatorFn>validator;\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, Renderer2, forwardRef} from '@angular/core';\n\nimport {ControlValueAccessor,
NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nexport const NUMBER_VALUE_ACCESSOR:
any = {\n provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => NumberValueAccessor),\n multi:
true\n};\n\n/**\n * @description\n * The `ControlValueAccessor` for writing a number value and listening to
number input changes.\n * The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel`\n * directives.\n *\n * @usageNotes\n *\n * ### Using a number input with a reactive form.\n *\n * The
following example shows how to use a number input with a reactive form.\n *\n * ```ts\n * const totalCountControl
= new FormControl();\n * ```\n *\n * ```\n * <input type=\"number\" [formControl]=\"totalCountControl\">\n * ```\n

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

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

  /**
   * @description
   * Sets the 'disabled' property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /**
   * @description
   * Removes a control from the internal registry.
   */
  remove(control: NgControl, accessor: RadioControlValueAccessor): void {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._isSameGroup(this._accessors[i], accessor) && this._accessors[i][1] !== accessor) {
        this._accessors.splice(i, 1);
      }
    }
  }

  /**
   * @description
   * Selects a radio button.
   */
  select(accessor: RadioControlValueAccessor): void {
    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 accessor.name === controlPair[1].name && accessor._parent === controlPair[1].parent;
  }
}

/**
 * @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.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**
   * @description
   * Removes a control from the internal registry.
   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
      }
    }
  }

  /**
   * @description
   * Selects a radio button.
   */
  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 accessor._parent === controlPair[1].parent && accessor.name === controlPair[1].name;
  }
}

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 */

import {Directive, ElementRef, Injectable, 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
 * 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. It is used with reactive forms directives to provide a name attribute.
 * The follow 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 `name` attribute.
 * @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts
 * @example forms/reactiveRadioButtons/reactiveRadioButtons.component.html
 * @example forms/reactiveRadioButtons/reactiveRadioButtons.component.ts
 */
@Directive({
  selector: 'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',
  host: {
    'change': 'onChange($event.target.value)',
    'blur': 'onTouched()',
  },
  providers: [RADIO_VALUE_ACCESSOR]}
export class RadioControlValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when a change or input event occurs on the input element.
   * @param fn The callback function
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = fn;
  }

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

  /**
   * @description
   * Sets the 'disabled' property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /**
   * @description
   * Removes a control from the internal registry.
   */
  remove(control: NgControl, accessor: RadioControlValueAccessor): void {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
      }
    }
  }

  /**
   * @description
   * Selects a radio button.
   */
  select(accessor: RadioControlValueAccessor): void {
    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 accessor._parent === controlPair[1].parent && accessor.name === controlPair[1].name;
  }
}
```typescript
// TODO(issue/24571): remove '!'.
_state !: boolean;
/** @internal */
// TODO(issue/24571): remove '!'.
_control !: NgControl;
/** @internal */
// TODO(issue/24571): remove '!'.
_fn !: Function;

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

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

/**
 * @description
 * Tracks the name of the radio input element.
 */
// TODO(issue/24571): remove '!'.
@Input() name !: string;

/**
 * @description
 * Tracks the name of the `FormControl` bound to the directive. The name corresponds to a key in the parent `FormGroup` or `FormArray`.
 */
// TODO(issue/24571): remove '!'.
@Input() formControlName !: string;

/**
 * @description
 * Tracks the value of the radio input element.
 */
@Input() value: any;

constructor(
  private _renderer: Renderer2,
  private _elementRef: ElementRef,
  private _registry: RadioControlRegistry,
  private _injector: Injector) {}

/**
 * @description
 * A lifecycle method called when the directive is initialized. For internal use only.
 */
ngOnInit(): void {
  this._control = this._injector.get(NgControl);
  this._checkName();
  this._registry.add(this._control, this);
}

/**
 * @description
 * Lifecycle method called before the directive’s instance is destroyed. For internal use only.
 */
ngOnDestroy(): void {
  this._registry.remove(this);
}

/**
 * @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">
  `);
}
```

```typescript
/**
 * The `ControlValueAccessor` for writing a range value and listening to range input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
 * directives.
 *
 * @usageNotes
 *
 * ### Using a range input with a reactive form
 *
 * The following example shows how to use a range input with a reactive form.
 *
 * ```ts
 * const ageControl = new FormControl();
 * ```
 *
 * ```
 * <input type="range" [formControl]="ageControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@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($event)'
  },
  providers: [RANGE_VALUE_ACCESSOR]
})
export class RangeValueAccessor
  implements ControlValueAccessor {
    /**
     * The registered callback function called when a change input event occurs on the input element.
     */
    onChange = (_: any) => {};

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

    constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {}

    /**
     * A lifecycle method called when the directive is initialized. For internal use only.
     */
    ngOnInit(): void {
      this._control = this._injector.get(NgControl);
      this._checkName();
      this._registry.add(this._control, this);
    }

    /**
     * Lifecycle method called before the directive’s instance is destroyed. For internal use only.
     */
    ngOnDestroy(): void {
      this._registry.remove(this);
    }

    /**
     * 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">
      `);
    }
```

**/**

```typescript
/**
 * 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): 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);
}

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>`

};

```
FormControl('Drew', Validators.required)\n
});\n `);\n }\n\n static ngModelWarning(directiveName: string):
void {\n console.warn(`\n It looks like you're using ngModel on the same form field as ${directiveName}. \n
Support for using the ngModel input property and ngModelChange event with \n reactive form directives has been
deprecated in Angular v6 and will be removed \n in Angular v7.\n \n For more information on this, see our API
docs here:\n https://angular.io/api/forms/${directiveName === 'formControl' ? 'FormControlDirective' \n
:
'FormControlName'}#use-with-ngmodel\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 {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_VALUE_ACCESSOR: StaticProvider = {\n provide: NG_VALUE_ACCESSOR,\n useExisting:
forwardRef(() => SelectControlValueAccessor),\n multi: true\n};\n\nfunction _buildValueString(id: string | null,
value: any): string {\n if (id == null) return `${value}`;\n if (value && typeof value === 'object') value = 'Object';\n
return `${id}: ${value}`.slice(0, 50);\n}\n\nfunction _extractId(valueString: string): string {\n return
valueString.split(':')[0];\n}\n\n/**\n * @description\n * The `ControlValueAccessor` for writing select control
values and listening to select control\n * changes. The value accessor is used by the `FormControlDirective`,
`FormControlName`, and\n * `NgModel` directives.\n *\n * @usageNotes\n *\n * ### Using select controls in a
reactive form\n *\n * The following examples show how to use a select control in a reactive form.\n *\n *
{@example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'}\n *\n * ###
Using select controls in a template-driven form\n *\n * To use a select in a template-driven form, simply add an
`ngModel` and a `name`\n * attribute to the main `<select>` tag.\n *\n * {@example
forms/ts/selectControl/select_control_example.ts region='Component'}\n *\n * ### Customizing option selection\n
*\n * Angular uses object identity to select option. It's possible for the identities of items\n * to change while the
data does not. This can happen, for example, if the items are produced\n * from an RPC to the server, and that RPC
is re-run. Even if the data hasn't changed, the\n * second response will produce objects with different identities.\n
*\n * To customize the default option comparison algorithm, `<select>` supports `compareWith` input.\n *
`compareWith` takes a **function** which has two arguments: `option1` and `option2`.\n * If `compareWith` is
given, Angular selects option by the return value of the function.\n *\n * ```ts\n * const selectedCountriesControl =
new FormControl();\n * ```\n *\n * ```\n * <select [compareWith]=\"compareFn\"
[formControl]=\"selectedCountriesControl\">\n * <option *ngFor=\"let country of countries\"
[ngValue]=\"country\">\n *
{{country.name}}\n * </option>\n * </select>\n *\n * compareFn(c1: Country,
c2: Country): boolean {\n * return c1 && c2 ? c1.id === c2.id : c1 === c2;\n * }\n * ```\n *\n * **Note:** We
listen to the 'change' event because 'input' events aren't fired\n * for selects in Firefox and IE:\n *
https://bugzilla.mozilla.org/show_bug.cgi?id=1024350\n * https://developer.microsoft.com/en-us/microsoftedge/platform/issues/4660045/\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n *
@publicApi\n */\n@Directive({\n selector:\n
'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]',\n
host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},\n providers:
[SELECT_VALUE_ACCESSOR]\n})\nexport class SelectControlValueAccessor implements
ControlValueAccessor {\n value: any;\n /** @internal */\n _optionMap: Map<string, any> = new Map<string,
any>();\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

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/**
   * Sets the "value" property on the input element. The "selectedIndex"
   * property is also set if an ID is
   * provided on the option element.
   */
setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

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

/**
   * Lifecycle method called before the directive's instance is
   * destroyed. For internal use only.
   */
ngOnDestroy(): void {if (this._select) {this._select.writeValue(this._select.value);
    if (this._select == null) return;
this._select._optionMap.set(this.id, value);
    this._setElementValue(_buildValueString(this.id, value));
}}

/** @description
 * Mock interface for HTML Options */
interface HTMLOption {
  value: string;
  selected: boolean;
}

/** @description
 * Mock interface for HTMLCollection */
abstract class HTMLCollection {
  // TODO(issue/24571): remove '!'.
  length!: number;
  abstract item(_: number): HTMLOption;
}

/** @description
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
 * control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel`
 * directives.
 * 
 * @see `SelectControlValueAccessor`
 *
 * @usageNotes
 * 
 * ### Using a

---

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multi-select control

* The follow example shows you how to use a multi-select control with a reactive form.

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

<select multiple
  name="countries"
  formControlName="countryControl">
  <option *ngFor="let country of countries" [ngValue]="country.name">
    {{ country.name }}
  </option>
</select>
```

### Customizing option selection

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

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```ts
_optionsMap.forEach((opt, i) => { opt._setSelected(ids.indexOf(o.toString()) > -1); });
```

```ts
this._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;
}
```

```ts
this._getOptionValue(valueString: string): any {
  const id: string = _extractId(valueString);
  return this._optionMap.has(id) ? this._optionMap.get(id)!.value : valueString;
}
```

```ts
registerOnTouched(fn: () => any): void {
  this.onTouched = fn;
}
```
```typescript
@internal
*value: any;

constructor(private_element: ElementRef, private_renderer: Renderer2, @Optional() @Host() private_select: SelectMultipleControlValueAccessor) {
  if (this_select) {
    this.id = this_select._registerOption(this);
  }
}

/**
 * @description
 * Tracks the value bound to the option element. Unlike the value binding,
 * ngValue supports binding to objects.
 */
@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);
}

/**
 * @description
 * Tracks simple string values bound to the option element.
 */
@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);
  }
}

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

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

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};
```

function setUpViewChangePipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor !.registerOnChange((newValue: any) => {
    control._pendingValue = newValue;
    control._pendingDirty = true;
    if (control.updateOn === 'change') updateControl(control, dir);
  });
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor !.registerOnTouched(() => {
    control._pendingTouched = true;
    if (control.updateOn === 'blur' && control._pendingChange) updateControl(control, dir);
    if (control.updateOn !== 'submit') control.markAsTouched();
  });
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue,
  {emitModelToViewChange: false});
  control._pendingChange = false;
}

function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {
    // control -> view
    dir.valueAccessor !.writeValue(newValue);
    // control -> ngModel
    if (emitModelEvent)
      dir.viewToModelUpdate(newValue);
  });
}

const BUILTIN_ACCESSORS = [
  CheckboxControlValueAccessor,
  RangeValueAccessor,
  NumberValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();
  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });
}

// TODO: vsavkin remove it once https://github.com/angular/angular/issues/3011 is implemented
export function selectValueAccessor(
  dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;

  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with');

  let defaultAccessor = ControlValueAccessors.some(a => valueAccessor.constructor === a);

  let builtInAccessor: ControlValueAccessor|undefined = undefined;
  let defaultAccessor: ControlValueAccessor|undefined = undefined;
  let customAccessor: ControlValueAccessor|undefined = undefined;

  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      builtInAccessor = v;
    }
  });

  return builtInAccessor || defaultAccessor;
builtinAccessor = v;

    } else {
      if (customAccessor)
        _throwError(dir, 'More than one custom value accessor matches form control with');
      customAccessor = v;
    }
  });

  if (customAccessor) return
  if (builtinAccessor) return builtinAccessor;
  if (defaultAccessor) return defaultAccessor;
  _throwError(dir, 'No valid value accessor for form control with');
  return null;
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

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

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
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): any {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0) return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] :
          null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return
  }

  if (controlToFind) return Array.isArray(controlToFind) && controlToFind.controls.hasOwnProperty(name as string) ?
    controlToFind.controls[name] : null;
  else if (controlToFind instanceof FormArray) {
    controlToFind = controlToFind.at(<number>name) ?
    controlToFind : null;
  }

  if (validatorOrOpts) {
    ValidatorFn = null;
    validatorOrOpts = ValidatorFn
  }

  return composeAsyncValidators(validatorOrOpts, validatorOrOpts) as AbstractControlOptions;
}

function isOptionsObj(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null &&
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```
/**
 * True if the control has not been marked as touched
 *
 * A control is `untouched` if the user
 * is marked `touched` once the user has triggered
 * a `blur` event on it.
 */
public readonly touched: boolean =

/**
 * True if the control is marked as `touched`.
 *
 * A control in the UI; compare `pristine`.
 * Programmatic changes to a control's value do not mark it dirty.
 */
get user has changed the value
 * in the UI.
 *
 * @returns True if the user has changed the value of this control
 * value do not mark it dirty.
 */
public readonly pristine: boolean = true;

/**
 * A control is `dirty` if the
 * programmatic changes to a control's
 * value do not mark it dirty.
 */
public readonly errors !: ValidationErrors |

/**
 * A control is `pristine` if the user has not yet changed the value in the UI.
 *
 * @returns null if there are no errors.
 */
private _parent !: FormGroup | FormArray;
private _onCollectionChange = () => {};

/** @internal */
// TODO(issue/24571): remove '!'.
private _updateOn !=Array.isArray(validatorOrOpts) &&
      typeof validatorOrOpts === 'object';
}

/**
 * This is the base class
 */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty !: boolean;
  _pendingTouched!: boolean;
  _onInternalModuleName":"AbstractControl","@see [Forms Guide]@see [Reactive Forms Guide]@see [Dynamic Forms Guide]@see [Guide/Forms]

```
has not yet triggered\n * a `blur` event on it.\n */\n get untouched(): boolean { return !this.touched; }\n\n /**\n
* A multicasting observable that emits an event every time the value of the control changes, in\n * the UI or
programmatically. It also emits an event each time you call enable() or disable()\n * without passing along
{emitEvent: false} as a function argument.\n */\n // TODO(issue/24571): remove '!'.\n public readonly
valueChanges !: Observable<any>;\n\n /**\n * A multicasting observable that emits an event every time the
validation `status` of the control\n * recalculates.\n *\n * @see {@link AbstractControl.status}\n *\n */\n //
TODO(issue/24571): remove '!'.\n public readonly statusChanges !: Observable<any>;\n\n /**\n * Reports the
update strategy of the `AbstractControl` (meaning\n * the event on which the control updates itself).\n * Possible
values: `'change'` | `'blur'` | `'submit'`\n * Default value: `'change'`\n */\n get updateOn(): FormHooks {\n return
this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : 'change');\n }\n\n /**\n * Sets the
synchronous validators that are active on this control. Calling\n * this overwrites any existing sync validators.\n
*\n * When you add or remove a validator at run time, you must call\n * `updateValueAndValidity()` for the new
validation to take effect.\n *\n */\n setValidators(newValidator: ValidatorFn|ValidatorFn[]|null): void {\n
this.validator = coerceToValidator(newValidator);\n }\n\n /**\n * Sets the async validators that are active on this
control. Calling this\n * overwrites any existing async validators.\n *\n * When you add or remove a validator at
run time, you must call\n * `updateValueAndValidity()` for the new validation to take effect.\n *\n */\n
setAsyncValidators(newValidator: AsyncValidatorFn|AsyncValidatorFn[]|null): void {\n this.asyncValidator =
coerceToAsyncValidator(newValidator);\n }\n\n /**\n * Empties out the sync validator list.\n *\n * When you
add or remove a validator at run time, you must call\n * `updateValueAndValidity()` for the new validation to take
effect.\n *\n */\n clearValidators(): void { this.validator = null; }\n\n /**\n * Empties out the async validator
list.\n *\n * When you add or remove a validator at run time, you must call\n * `updateValueAndValidity()` for
the new validation to take effect.\n *\n */\n clearAsyncValidators(): void { this.asyncValidator = null; }\n\n
/**\n * Marks the control as `touched`. A control is touched by focus and\n * blur events that do not change the
value.\n *\n * @see `markAsUntouched()`\n * @see `markAsDirty()`\n * @see `markAsPristine()`\n *\n *
@param opts Configuration options that determine how the control propagates changes\n * and emits events after
marking is applied.\n * * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks all
direct ancestors. Default is false.\n */\n markAsTouched(opts: {onlySelf?: boolean} = {}): void {\n (this
as{touched: boolean}).touched = true;\n\n if (this._parent && !opts.onlySelf) {\n
this._parent.markAsTouched(opts);\n }\n }\n\n /**\n * Marks the control and all its descendant controls as
`touched`.\n * @see `markAsTouched()`\n */\n markAllAsTouched(): void {\n this.markAsTouched({onlySelf:
true});\n\n this._forEachChild((control: AbstractControl) => control.markAllAsTouched());\n }\n\n /**\n *
Marks the control as `untouched`.\n *\n * If the control has any children, also marks all children as `untouched`\n
* and recalculates the `touched` status of all parent controls.\n *\n * @see `markAsTouched()`\n * @see
`markAsDirty()`\n * @see `markAsPristine()`\n *\n * @param opts Configuration options that determine how
the control propagates changes\n * and emits events after the marking is applied.\n * * `onlySelf`: When true,
mark only this control. When false or not supplied,\n * marks all direct ancestors. Default is false.\n */\n
markAsUntouched(opts: {onlySelf?: boolean} = {}): void {\n (this as{touched: boolean}).touched = false;\n
this._pendingTouched = false;\n\n this._forEachChild(\n
(control: AbstractControl) => {
control.markAsUntouched({onlySelf: true}); });\n\n if (this._parent && !opts.onlySelf) {\n
this._parent._updateTouched(opts);\n }\n }\n\n /**\n * Marks the control as `dirty`. A control becomes dirty
when\n * the control's value is changed through the UI; compare `markAsTouched`.\n *\n * @see
`markAsTouched()`\n * @see `markAsUntouched()`\n * @see `markAsPristine()`\n *\n * @param opts
Configuration options that determine how the control propagates changes\n * and emits events after marking is
applied.\n * * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks all direct
ancestors. Default is false.\n */\n markAsDirty(opts: {onlySelf?: boolean} = {}): void {\n (this as{pristine:
boolean}).pristine = false;\n\n if (this._parent && !opts.onlySelf) {\n
this._parent.markAsDirty(opts);\n }\n
}\n\n /**\n * Marks the control as `pristine`.\n *\n * If the control has any children, marks all children as
`pristine`,\n * and recalculates the `pristine` status of all parent\n * controls.\n *\n * @see

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`markAsTouched()`
   * @see `markAsUntouched()`
   * @see `markAsDirty()`
   *
   * @param opts
   * Configuration options that determine how the control 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(onlySelf?: boolean)`: void (this as AbstractControl).pristine = true;
   * * `this._pendingDirty = false;`
   * this._forEachChild((control: AbstractControl) => {
   * control.markAsPristine(onlySelf: true); });
   * if (this._parent && !opts.onlySelf) {
   * this._parent.markAsPristine(onlySelf: true);
   * }
   * }
   *
   * @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.
   * * `emitEvent`: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status the control is marked pending when false, no events are emitted.
   * *
   * @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.
   * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
   * When false, no events are emitted.
   * * `disable(onlySelf?: boolean, emitEvent?: boolean): void` {
   * (this as AbstractControl).status = PENDING;
   * if (opts.emitEvent !== false) {
   * (this.statusChanges as EventEmitter<any>).emit(this.status);
   * }
   * this._forEachChild((control: AbstractControl) => {
   * control.disable({...opts, onlySelf: true});
   * });
   * this._updateValue();
   * if (opts.emitEvent !== false) {
   * (this.valueChanges as EventEmitter<any>).emit(this.value);
   * (this.statusChanges as EventEmitter<string>).emit(this.status);
   * }
   * this._updateAncestors({...opts, emitEvent: false});
   * this._onDisabledChange.forEach((changeFn) => changeFn(true));
   * }
   *
   * @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.
   * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
   * When false, no events are emitted.
   * * `enable(onlySelf?: boolean, emitEvent?: boolean): void` {
   * (this as AbstractControl).status = VALID;
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._updateAncestors({...opts, emitEvent: false});
   * this._onDisabledChange.forEach((changeFn) => changeFn(false));
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   * this._updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
   * this._forEachChild((control: AbstractControl) => {
   * control.enable({...opts, onlySelf: true});
   * });
   */
/**
 * 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.
 */
 @param opts Configuration options determine how the control propagates changes and emits events:
 * after updates and validity checks are applied.

  `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.

  `ValuePairAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = { })`: void

  `this._initializeStatus();` this._updateValue();
  if (this.enabled) {
    this._cancelExistingSubscription();
    (this as{errors: ValidationErrors | null}).errors = this._runValidator();
    (this as{status: string}).status = this._calculateStatus();
    if (this.status === VALID || this.status === PENDING) {
      this._runAsyncValidator(opts.emitEvent);
    }
  }
  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  } if (this._parent && !opts.onlySelf) {
    this._parent.updateValueAndValidity(opts);
  }

  private _setError(errors: ValidationErrors | null, path: Array<string> | string): any {
    return _find(this, path, '.');
  }

  private _getErrors(errorCode: string, path?: Array<string> | string): any {
    const control = path ? this.get(path) : this;
    return control &&
  }
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```typescript
control.errors ? control.errors[errorCode] : null
```

Reports whether the control with the given path has the error specified.

```typescript
* @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.

* @param name * @usageNotes * For example, for the following `FormGroup`:

```typescript
form = new FormGroup({
  address: new FormControl()
})
```

The path to the `street` control from the root form would be `address` -> `street`.

* @ usageNotes * It can be provided to this method in one of two formats:

```typescript
* @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.

* @returns whether the given error is present in the control at the given path.

* If the control is not present, false is returned.

* @hasError(errorCode: string) => boolean
```

* @description

Reports whether the control with the given path has the error specified.

```typescript
* @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.

```

For example, for the following `FormGroup`:

```typescript
form = new FormGroup({
  address: new FormControl()
})
```

The path to the `street` control from the root form would be `address` -> `street`.

* @ usageNotes * It can be provided to this method in one of two formats:

```typescript
* @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.

```

If no path is given, this method checks for the error on the current control.

```typescript
* @returns whether the given error is present in the control at the
given path.

* If the control is not present, false is returned.

* @hasError(errorCode: string) => boolean
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* @description

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For example, for the following `FormGroup`:

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* @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.

```

If no path is given, this method checks for the error on the current control.

```typescript
* @returns whether the given error is present in the control at the
given path.

* If the control is not present, false is returned.

* @hasError(errorCode: string) => boolean
```
state object. The `value` and `disabled` keys are required in this case.

```ts
const control = new FormControl({ value: 'n/a', disabled: true });
```

// `DISABLED` The following example initializes the control with a sync validator.
```ts
const control = new FormControl('', Validators.required);
```

// `INVALID` The following example initializes the control using an options object.
```ts
const control = new FormControl({ value: 'n/a', disabled: true });
```

Set the `updateOn` option to `'blur'` to update on the blur event.
```ts
const control = new FormControl('', { updateOn: 'blur' });
```

Set the `updateOn` option to `'submit'` to update on a submit event.
```ts
const control = new FormControl('', { updateOn: 'submit' });
```

Reset the control back to an initial value.
```ts
const control = new FormControl('Drew');
```

Reset the control back to an initial value and disabled.
```ts
const control = new FormControl({ value: 'Drew', disabled: true });
```

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
const control = new FormControl('Nancy');
```

### Configure the control to update on a blur event
```ts
const control = new FormControl('', Validators.required);
```

### Configure the control to update on a submit event
```ts
const control = new FormControl('', { updateOn: 'submit' });
```

### Reset the control back to a specific form state
```ts
const control = new FormControl('Nancy');
```

### Reset the control back to an initial value and disabled
```ts
const control = new FormControl({ value: 'Drew', disabled: true });
```

The configuration options are passed to the `AbstractControl` methods. True or false (the default) for the `updateOn` option.
```ts
const control = new FormControl('', { updateOn: 'submit' });
```

When true, each change only affects this control, and not its parent. Default false.
```ts
const control = new FormControl('', { updateOn: 'submit' });
```

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

When true or not supplied (the default), each change triggers an event.
```ts
const control = new FormControl('Nancy');
```

When true or not supplied (the default), each change triggers an event.
```ts
const control = new FormControl('Nancy');
```

When true or not supplied (the default), each change triggers an event.
```ts
const control = new FormControl('Nancy');
```

When true or not supplied (the default), each change triggers an event.
```ts
const control = new FormControl('Nancy');
```
emitViewToModelChange?: boolean
  } = {}): void {
    this.setValue(value, options);
  }

  /**
   * Resets the form control, marking it ‘pristine’ and ‘untouched’, and setting
   * the value to null.
   * @param formState
   * @param options
   */
  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;
  }

  /**
   * Register a listener for change events.
   */
  registerOnChange(fn: Function): void {
    this._onChange.push(fn);
  }

  /**
   * Register a listener for disabled events.
   */
  registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {
    this._onDisabledChange.push(fn);
  }

  /**
   * Track the value and validity state of a group of `FormControl` instances.
   * `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 value of each child, marking the group invalid if any child is invalid.
   */
  export class FormGroup {
    constructor(private _controls?: {[key: string]: FormControl}, public validators?: {[key: string]: any}, public asyncValidators?: {[key: string]: any}, public updateOn?: 'blur' | 'submit' | 'change' = 'blur' | public Api || export)
  export class FormGroup {
    constructor(private _controls?: {[key: string]: FormControl}, public validators?: {[key: string]: any}, public asyncValidators?: {[key: string]: any}, public updateOn?: 'blur' | 'submit' | 'change' = 'blur' | public Api || export)
class FormGroup extends AbstractControl {

  /**
   * Creates a new `FormGroup` instance.
   *
   * @param controls A collection of child controls. The key for each child is the name under
   * which 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 function, or array of async validator functions.
   *
   * constructor(controls; public

   * @param name The control name to register in the collection
   * @param control Provides the control for the given name
   * @param registerControl(name; control; AbstractControl): AbstractControl
   * @param addControl(name; control; void)
   * @param removeControl(name; void)
   * @param setControl(name; control; void)
   * @param contains(controlName; boolean)
   *
   * setValue(value; options; void)
   *
   * this._checkAllValuesPresent();
   * Object.keys(value).forEach(name => {
   *   this._throwIfControlMissing(name);
   *   this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: false});
   * });
   * return this.controls[name];
   * return control;
   * this.controls[name] = control;
   * control.setParent(this);
   * control._registerOnCollectionChange(this._onCollectionChange);
   * this.updateValueAndValidity();
   * return control;
   * this._onCollectionChange();
   * return value;
this.updateValueAndValidity(options);\n }\n\n /**\n * Patches the value of the `FormGroup`. It accepts an object
with control\n * names as keys, and does its best to match the values to the correct controls\n * in the group.\n
*\n * It accepts both super-sets and sub-sets of the group without throwing an error.\n *\n * @usageNotes\n *
### Patch the value for a form group\n *\n * ```\n * const form = new FormGroup({\n * first: new
FormControl(),\n * last: new FormControl()\n * });\n * console.log(form.value); // {first: null, last: null}\n
*\n * form.patchValue({first: 'Nancy'});\n * console.log(form.value); // {first: 'Nancy', last: null}\n * ```\n *\n
* @param value The object that matches the structure of the group.\n * @param options Configuration options that
determine how the control propagates changes and\n * emits events after the value is patched.\n * * `onlySelf`:
When true, each change only affects this control and not its parent. Default is\n * true.\n * * `emitEvent`: When
true or not supplied (the default), both the `statusChanges` and\n * `valueChanges`\n * observables emit events
with the latest status and value when the control value is updated.\n * When false, no events are emitted.\n * The
configuration options are passed to the {@link AbstractControl#updateValueAndValidity\n *
updateValueAndValidity} method.\n */\n patchValue(value: {[key: string]: any}, options: {onlySelf?: boolean,
emitEvent?: boolean} = {}):\n
void {\n Object.keys(value).forEach(name => {\n
if (this.controls[name]) {\n
this.controls[name].patchValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});\n
}\n });\n
this.updateValueAndValidity(options);\n }\n\n /**\n * Resets the `FormGroup`, marks all descendants are marked
`pristine` and `untouched`, and\n * the value of all descendants to null.\n *\n * You reset to a specific form state
by passing in a map of states\n * that matches the structure of your form, with control names as keys. The state\n
* is a standalone value or a form state object with both a value and a disabled\n * status.\n *\n * @param value
Resets the control with an initial value,\n * or an object that defines the initial value and disabled state.\n *\n *
@param options Configuration options that determine how the control propagates changes\n * and emits events
when the group is reset.\n * * `onlySelf`: When true, each change only affects this control, and not its parent.
Default is\n * false.\n * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n *
`valueChanges`\n * observables emit events with the latest status and value when the control is reset.\n * When
false, no events are emitted.\n * The configuration options are passed to the {@link
AbstractControl#updateValueAndValidity\n * updateValueAndValidity} method.\n *\n * @usageNotes\n *\n
* ### Reset the form group values\n *\n * ```ts\n * const form = new FormGroup({\n * first: new
FormControl('first name'),\n * last: new FormControl('last name')\n * });\n *\n * console.log(form.value); //
{first: 'first name', last: 'last name'}\n *\n * form.reset({ first: 'name', last: 'last name' });\n *\n *
console.log(form.value); // {first: 'name', last: 'last name'}\n * ```\n *\n * ### Reset the form group values and
disabled status\n *\n * ```\n * const form = new FormGroup({\n * first: new FormControl('first name'),\n *
last: new FormControl('last name')\n * });\n *\n * form.reset({\n * first: {value: 'name', disabled: true},\n *
last: 'last'\n * });\n *\n * console.log(this.form.value); // {first: 'name', last: 'last name'}\n *
console.log(this.form.get('first').status); // 'DISABLED'\n * ```\n */\n 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});\n });\n
this._updatePristine(options);\n this._updateTouched(options);\n this.updateValueAndValidity(options);\n }\n\n
/**\n * The aggregate value of the `FormGroup`, including any disabled controls.\n *\n * Retrieves all values
regardless of disabled status.\n * The `value` property is the best way to get the value of the group, because\n * it
excludes disabled controls in the `FormGroup`.\n */\n getRawValue(): any {\n return this._reduceChildren(\n
{}, (acc: {[k: string]: AbstractControl}, control: AbstractControl, name: string) => {\n
acc[name] = control
instanceof FormControl ? control.value : (<any>control).getRawValue();\n
return acc;\n
});\n }\n\n /**
@internal */\n _syncPendingControls(): boolean {\n let subtreeUpdated = this._reduceChildren(false, (updated:
boolean, child: AbstractControl) => {\n
return child._syncPendingControls() ? true : updated;\n });\n if
(subtreeUpdated) this.updateValueAndValidity({onlySelf: true});\n return subtreeUpdated;\n }\n\n /** @internal
*/\n _throwIfControlMissing(name: string): void {\n if (!Object.keys(this.controls).length) {\n
throw new
Error(`\n
There are no form controls registered with this group yet. If you're using ngModel,\n
you may
want to check next tick (e.g. use setTimeout).\n
`);\n }\n if (!this.controls[name]) {\n
throw new

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Error(`Cannot find form control with name: ${name}.`);
    }
  }

  /** @internal */
  _forEachChild(cb: (v:
          any, k: string) => void): void {
    Object.keys(this.controls).forEach(k => cb(this.controls[k], k));
  }

  /** @internal */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl, name: string) => {
      control.setParent(this);
      control._registerOnCollectionChange(this._onCollectionChange);
    });
  }

  /** @internal */
  _updateValue(): void { (this as{value: any}).value = this._reduceValue(); }

  /** @internal */
  _anyControls(condition: Function): boolean {
    let res = false;
    this._forEachChild((control: AbstractControl, name: string) => {
      res = res || (this.contains(name) && condition(control));
    });
    return res;
  }

  /** @internal */
  _reduceValue() {
    return this._reduceChildren({}, (acc: {
          [k: string]
        }, control: AbstractControl, name: string) => {
          if (control.enabled || this.disabled) {
            acc[name] = control.value;
          }
          return acc;
        });
  }

  /** @internal */
  _reduceChildren(initValue: any, fn:
          Function) {
    let res = initValue;
    this._forEachChild((control: AbstractControl, name: string) => { res = fn(res, control, name); });
    return res;
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (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}'.`);
      }
    });
  }
}

/**
 * Tracks the value and validity state of an array of `FormControl`,
 * `FormGroup` or `FormArray` instances.
 * `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`, `FormArray` enables
 * the chaining of form definitions, making your forms more
 * declarative and easier to reason about.
 *
 * @usageNotes
 *
 * ### Create an array of form controls
 *
 * ```
 * const arr = new FormArray(
 *   [new
 *     FormControl('Nancy', Validators.minLength(2)),
 *     new FormControl('Drew')
 *   ]);  
 *
 * console.log(arr.value);       // ['Nancy', 'Drew']
 * console.log(arr.status);     // 'VALID'
 * ```
 *
 * ### Create a form array with array-level validators
 *
 * You include array-level validators and async validators. These come in
 * handy when you want to perform validation that considers the value of more than one child control.
 *
 * ```ts
 * const arr = new FormArray([new
 *   FormControl()
 * ], {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.
 *
 * ```ts
 * const arr = new FormArray([new
 *   FormControl()
 * ], {updateOn: 'blur'});
 * ```
 *
 * ### Adding or removing controls from a form array
 *
 * To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods.
 *
 * ```ts
 * arr.push(new FormControl());
 * arr.insert(1, new FormControl());
 * arr.removeAt(0);
 * arr.clear();
 * ```
 *
 * ### Update the value of a form array
 *
 * ```ts
 * arr.updateValueAndValidity();
 * ```
 */
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
   * validators.
   * @param asyncValidator An asynchronous validator function, or an array of
   * async validators.
   */
  constructor(
      public controls: AbstractControl[],
      validatorOrOpts?: ValidatorFn|ValidatorFn[],
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[],
      asyncValidatorFn?: AsyncValidatorFn|null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator));
  }

  /** @internal */
  _updateValueAndValidity(): void {
    this._updateStrategy(this._updateStrategyOptions);
number): AbstractControl { return this.controls[index]; }

/**
 * 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
 * @return the value of a control that doesn’t exist or if you exclude the
 */
insert(index: number, control: AbstractControl): void {
  this.controls.splice(index, 0, control);

  this._registerControl(control);
  this.updateValueAndValidity();
  this._onCollectionChange();
}

/**
 * Remove the control at the given `index` in the array.
 * @param index Index in the array to remove the control
 * @param control Form control to replace the existing control
 */
removeAt(index: number): void {
  if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
  this.controls.splice(index, 1);
  this.updateValueAndValidity();
  this._onCollectionChange();
}

/**
 * Replace an existing control.
 * @param index Index in the array to replace the control
 * @param control The `AbstractControl` control to replace the existing control
 */
setControl(index: number, control: AbstractControl): void {
  if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
  this.controls.splice(index, 1);

  if (control) {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
  }

  this.updateValueAndValidity();
  this._onCollectionChange();
}

/**
 * Length of the control array.
 */
get length(): number { return this.controls.length; }

/**
 * Sets the value of the `FormArray`. It accepts
 * an array that matches
 * the structure of the control.
 * This method performs strict checks, and throws an
 * error if you try
 * to set the value of a control that doesn’t exist or if you exclude the
 * @param value Array of values for the controls
 * @param options Configure options that determine how the
 * control propagates changes and
 * emits events after the value changes.
 * `onlySelf`: When true, each
 * change only affects this control, and not its parent. Default:
 * `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.
 * @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.
 * `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` 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.
 * @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.
 * `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` observables emit events with the latest
 * status and value when the control value is updated.
 */
setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value);
  value.forEach((newValue: any, index: number) => {
    this._throwIfControlMissing(index);
    this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
  });
  this.updateValueAndValidity(options);
}

/**
 * Patches the value of the
 * `FormArray`. It accepts an array that matches
 * the structure of the control, and does its best to match the values
 * to the correct
 * controls in the group.
 * It accepts both super-sets and sub-sets of the array without
 * throwing an error.
 * @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.
 * `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` observables emit events with the latest
 * status and value when the control value is updated.
 */
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);
}

/**
 * Resets the
 * `FormArray` and all descendants are marked `pristine` and `untouched`, and the
 * value of all descendants to null
 * or null maps.
 * You reset to a specific form state by passing in an array of states
 * that matches the
structure of the control. The state is a standalone value or a form state object with both a value and a disabled status.

* `reset` * @usageNotes * ### Reset the values in a form array

* `reset` * `valueChanges` * `statusChanges`

* `options` * `emitEvent` * `onlySelf` * `emitEvent` * `emitEvent`

* `toString` * `getRawValue`

* `clear`

* `syncPendingControls`

* `checkAllValuesPresent`

* `allControlsDisabled`

* `checkIfControlMissing`

* `setUpControls` * `setControlState` * `checkAllControlsPresent`

* `createControl` * `createControlNode` * `createControlView` * `createView` * `createViewNode` * `createViewParent` * `createViewParentNode` * `createViewParentView`
Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';
import {AbstractControl, FormControl, FormGroup, FormHooks} from '@angular/forms';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '@angular/forms';
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.
 * You optionally export the directive into a local template variable using `\`ngForm` as the key
 * (ex: `\`myForm=\`ngForm\``). This is optional, but useful.
 * Many properties from the underlying `\`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
 * `\<noForm>` and the `\<form>` tags won't create an `\`NgForm` directive. In reactive forms, using `\`noForm` is
 * unnecessary because the `\` FormGroup` tags are inert. In that case, you wouldn't
 * refrain from using the
 * `\<form>` directive.
 * The following example shows how to capture the form values from the `\`ngSubmit` event.
 * The following example shows you how to change the `\`updateOn` option from its default using
 * the `\<form>` directive. In order to prevent the native DOM form validation UI from
 * interfering with Angular's form validation, Angular automatically adds the `\`novalidate` attribute on any `\<form>` tags
 * whenever a `\`FormsModule` or `\`ReactiveFormModule` are imported into the
 * application.
 * If you want to explicitly enable native DOM validation UI with Angular forms, you can add them
 * `\<ngNativeValidate>` attribute to the `\<form>` element.
 * The `\`FormGroup` instance created for this form.
 * Returns whether the form submission has been triggered.
 * 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
 * `\<noForm>` and the `\<form>` tags won't create an `\`NgForm` directive. In reactive forms, using `\`noForm` is
 * unnecessary because the `\` FormGroup` tags are inert. In that case, you wouldn't
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 * whenever a `\`FormsModule` or `\`ReactiveFormModule` are imported into the
 * application.
 * If you want to explicitly enable native DOM validation UI with Angular forms, you can add them
 * `\<ngNativeValidate>` attribute to the `\<form>` element.
 * The `\`FormGroup` instance created for this form.
 * Returns whether the form submission has been triggered.
 * 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
 * `\<noForm>` and the `\<form>` tags won't create an `\`NgForm` directive. In reactive forms, using `\`noForm` is
 * unnecessary because the `\` FormGroup` tags are inert. In that case, you wouldn't
 * refrain from using the
 * `\<form>` directive.
 * The following example shows how to capture the form values from the `\`ngSubmit` event.
 * The following example shows you how to change the `\`updateOn` option from its default using
 * the `\<form>` directive. In order to prevent the native DOM form validation UI from
 * interfering with Angular's form validation, Angular automatically adds the `\`novalidate` attribute on any `\<form>` tags
 * whenever a `\`FormsModule` or `\`ReactiveFormModule` are imported into the
 * application.
between the `NgModelGroup` and `FormGroupName` directives.\n *\n * @publicApi\n */\nexport class
AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {\n /**\n * @description\n
* The parent control for the group\n *\n * @internal\n */\n // TODO(issue/24571): remove '!'.\n _parent !:
ControlContainer;\n\n /**\n * @description\n * An array of synchronous validators for the group\n *\n *
@internal\n */\n // TODO(issue/24571): remove '!'.\n _validators !: any[];\n\n /**\n * @description\n * An
array of async validators for the group\n *\n * @internal\n */\n // TODO(issue/24571): remove '!'.\n
_asyncValidators !: any[];\n\n /**\n * @description\n * An internal callback method triggered on the instance
after the inputs are set.\n * Registers the group with its parent group.\n */\n ngOnInit(): void {\n
this._checkParentType();\n this.formDirective !.addFormGroup(this);\n }\n\n /**\n * @description\n * An
internal callback method triggered before the instance is destroyed.\n * Removes the group from its parent group.\n
*/\n ngOnDestroy(): void {\n if (this.formDirective) {\n
this.formDirective.removeFormGroup(this);\n }\n
}\n\n /**\n * @description\n * The `FormGroup` bound to this directive.\n */\n get control(): FormGroup {
return this.formDirective !.getFormGroup(this); }\n\n /**\n * @description\n * The path to this group from the
top-level directive.\n */\n get path(): string[] {\n return controlPath(this.name == null ? this.name :
this.name.toString(), this._parent);\n }\n\n /**\n * @description\n * The top-level directive for this group if
present, otherwise null.\n */\n get formDirective(): Form|null { return this._parent ? this._parent.formDirective :
null; }\n\n /**\n * @description\n * The synchronous validators registered with this group.\n */\n get
validator(): ValidatorFn|null { return composeValidators(this._validators); }\n\n /**\n * @description\n * The
async validators registered with this group.\n */\n get asyncValidator(): AsyncValidatorFn|null {\n return
composeAsyncValidators(this._asyncValidators);\n }\n\n /** @internal */\n _checkParentType(): void
{}\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 {FormErrorExamples as Examples} from './error_examples';\n\nexport class TemplateDrivenErrors {\n
static modelParentException(): void {\n 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
${Examples.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
${Examples.ngModelWithFormGroup}`);\n }\n\n static formGroupNameException(): void {\n throw new
Error(`\n
ngModel cannot be used to register form controls with a parent formGroupName or formArrayName
directive.\n\n
Option 1: Use formControlName instead of ngModel (reactive strategy):\n\n
${Examples.formGroupName}\n\n
Option 2: Update ngModel's parent be ngModelGroup (template-driven
strategy):\n\n
${Examples.ngModelGroup}`);\n }\n\n static missingNameException() {\n 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\"
name=\"first\">\n
Example 2: <input [(ngModel)]=\"person.firstName\" [ngModelOptions]=\"{standalone:
true}\">`);\n }\n\n static modelGroupParentException() {\n throw new Error(`\n
ngModelGroup cannot be
used with a parent formGroup directive.\n\n
Option 1: Use formGroupName instead of ngModelGroup (reactive
strategy):\n\n
${Examples.formGroupName}\n\n
Option 2: Use a regular form tag instead of the formGroup
directive (template-driven strategy):\n\n ${Examples.ngModelGroup}`);\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, Host, Inject, Input,
OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';\n\nimport
{NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';\n\nimport
{AbstractFormGroupDirective} from './abstract_form_group_directive';\nimport {ControlContainer} from
'./control_container';\nimport {NgForm} from './ng_form';\nimport {TemplateDrivenErrors} from
'./template_driven_errors';\n\nexport const modelGroupProvider: any = {\n provide: ControlContainer,\n
useExisting: forwardRef(() => NgModelGroup)\n};\n\n/**\n * @description\n * Creates and binds a `FormGroup`
instance to a DOM element.\n *\n * This directive can only be used as a child of `NgForm` (within `<form>` tags).\n

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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.

```typescript
@Directive({selector: '[ngModelGroup]', providers: [], exportAs: 'ngModelGroup'})
export class NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  constructor(@Host() @SkipSelf() parent: ControlContainer, @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[], @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }
}
```

---

```typescript
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';
```

---

`ngModel` forces an additional change detection run when its inputs change:
```typescript
<template>
  <div>{{myModel.valid}}</div>
  <input [(ngModel)]="myValue" #myModel="ngModel">
</template>
```

- Notes:
  - this is just one extra run no matter how many `ngModel` have been changed.
  - is a general problem when using `exportAs` for directives.

---

See a full list of properties directly available in `AbstractControlDirective`.
Using ngModel on a standalone control

When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it's often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a local template variable using `ngForm` such as (`#f="ngForm"`). Use the variable where needed on form submission. If you do need to populate initial values into your form, using a one-way binding on the `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit.

The following example shows controls using `ngModel` within a form:

```typescript
<my-person-control name="Nancy" ngModel 
[ngModelOptions]="{name: 'user'}">
</my-person-control>
```

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <my-person-control name="Nancy" ngModel 
[ngModelOptions]="{name: 'user'}">
  </my-person-control>
</form>
```

### Using a standalone 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. In templates, a string is allowed for convenience and template engines can be used to populate the control.

```html
<form>
  <input 
name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
[ngModelOptions]="{standalone: true}" /> Show more options?
</form>
```

### Using ngModel on a standalone control

The following example shows controls using `ngModel` within a form:

```typescript
<example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'>

* When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it's often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you.

The variable where needed on form submission.

* If you do need to populate initial values into your form, using a one-way binding on the `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit.

The following example shows controls using `ngModel` within a form:

```typescript
<example forms/ts/simpleForm/simple_form_example.ts region='Component'>
```
'@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>`.
 *
 * `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>`.
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

/**
 * @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.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```
 * 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/settig 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 forms directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.

 * After (choice 1 - use reactive forms):

 * ```
 * 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:

 * ```
 * @NgModule({
 *   imports: [ReactiveFormsModule],
 *   declarations: [MyComponent]
 * })
 * ```

 * 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.

 * FormControlDirective extends NgControl implements OnChanges

 * Internal reference to the view model value.

 * Tracks the
'FormControl' instance bound to the directive.

*\n*\n// TODO(issue/24571): remove '!'.
@Input('formControl') form!: FormControl;

@Input('ngModel') model: any;

@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.
 */
@Input('formControl') form !: FormControl;

/**
 * @description
 * Static property used to track whether any ngModel warnings have been sent across
 * all instances of FormControlDirective. Used to support warning config of 'always'.
 */
@Input('disabled') set isDisabled(isDisabled: boolean) {
  ReactiveErrors.disabledAttrWarning();
}

// TODO(kara): remove next 4 properties once deprecation period is
// over
/**
 * @deprecated as of v6
 */
@Input('ngModel') model: any;

/**
 * @deprecated as of v6
 */
@Output('ngModelChange') update = new EventEmitter();

/**
 * @description
 * Instance property used to track whether an ngModel warning has been sent out for this
 * FormControlDirective instance. Used to support warning config of 'once'.
 */
@Input('disableAttr') disableAttr!: boolean;

/**
 * @description
 * Static property used to track whether any ngModel warnings have been sent across
 * all instances of FormControlDirective. Used to support warning config of "once".
 *
 * @internal
 */
_private_ngModelWarningSentOnce = false;

/**
 * @description
 * Instance property used to track whether an ngModel warning has been sent out for this
 * FormControlDirective instance. Used to support warning config of "always".
 *
 * @internal
 */
_private_ngModelWarningSent = false;

constructor(@Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
              @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
              @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
              @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {

  super();
  this._rawValidators = validators || [];
  this._rawAsyncValidators = asyncValidators || [];
  this.valueAccessor = selectValueAccessor(this, valueAccessors);
}

/**
 * A lifecycle method called when the directive's inputs change. For
 * internal use only.
 *
 * @param changes A object of key/value pairs for the set of
 * changed inputs.
 */
ngOnChanges(changes: SimpleChanges): void {
  if (this._isControlChanged(changes)) {
    setUpControl(this.form, this);
    if (this.control.disabled
        && this.valueAccessor!.setDisabledState(true))
      this.form.updateValueAndValidity({emitEvent: false});
  }
  if (isPropertyUpdated(changes, this.viewModel)) {
    _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
    this.form.setValue(this.model);
    this.viewModel = this.model;
  }
}

/**
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string
 * name of the control on that level.
 * */
get path(): string[] { return [];

/**
 * Synchronous validator function composed of all the synchronous validators registered with this directive.
 */
get validator(): ValidatorFn|null { return

/**
 * Async validator function composed of all the async validators registered with this
 * FormControlDirective instance.
 */
get asyncValidator(): AsyncValidatorFn|null {

/**
 * The 'formControl' bound to this directive.
 */
get get control(): FormControl {

/**
 * Sets the new value for the view model and emits an
 * 'ngModelChange' event.
 */
this.update.emitToModelUpdate(newValue: any): void {

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

import {Directive, EventEmitter, Inject, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from '../../validators';
import {ControlContainer} from '../control_container';
import {Form} from '../form_interface';
import {ReactiveErrors} from '../reactive_errors';
import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

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{FormArrayName, FormGroupName} from '/form_group_name';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 * This directive accepts an existing `FormGroup` instance. It then will use
 * the `FormGroup` instance to match any child `FormControl`, `FormGroup`,
 * and `FormArray` instances to child `FormControlName`, `FormGroupName`,
 * and `FormArrayName` directives.
 * The following example registers a `FormGroup` with first name and
 * last name controls, and listens for the `ngSubmit` event when the
 * button is clicked.
 */
@Directive({
  selector: '[formGroup]',
  providers:
    [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  exportAs: 'ngForm'
})
export class FormGroupDirective extends ControlContainer implements Form,
    OnChanges {
  /**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  // TODO(issue/24571): remove '!'.
  private _oldForm!: FormGroup;

  /**
   * @description
   * Tracks the list of added `FormControlName` instances.
   */
  directives: FormControlName[] = [];

  /**
   * @description
   * Tracks the `FormGroup` bound to this directive.
   */
  @Input('formGroup') form: FormGroup = null!

  /**
   * @description
   * Emits an event when the form submission has been triggered.
   */
  @Output() ngSubmit = new EventEmitter();

  constructor(
      @Optional() @Self() @Inject(NG_VALIDATORS) private _validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[])
  {
    super();
  }

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   */
  ngOnChanges(changes: SimpleChanges): void {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  /**
   * Returns this directive's instance.
   */
  get formDirective(): Form { return this; }

  /**
   * Returns the `FormGroup` bound to this directive.
   */
  get control(): FormGroup { return this.form; }

  /**
   * 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 `FormGroupName` directive instance.
   */
  addFormGroup(dir: FormGroupName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
  }

  /**
   * Removes the `FormGroupName` directive instance from the form.
   * @param dir The `FormGroupName` directive instance.
   */
  removeFormGroup(dir: FormGroupName): void {}

  /**
   * Adds a new `FormGroupName` directive instance to the form.
   * @param dir The `FormGroupName` directive instance.
   */
  addFormGroup(dir: FormGroupName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(dir, ctrl);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    // ...
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```typescript
/**
 * No-op method to remove the form array.
 *
 * @param dir The `FormArrayName` directive instance.
 * @return FormArray
 */
removeFormArray(dir: FormArrayName): void {
    void {}
}

/**
 * Sets the new value for the provided `FormArrayName` directive.
 *
 * @param dir The `FormArrayName` directive instance.
 * @param value The new value for the directive's control.
 */
updateModel(dir: FormArrayName, value: any): void {
    void {}
}

/**
 * Retrieves the `FormArray` for a provided `FormArrayName` directive.
 *
 * @param dir The `FormArrayName` directive instance.
 * @return FormArray
 */
createForm(dir: FormArrayName): FormArray {
    FormArray
}

/**
 * @description
 * Method called with the `submit` event is triggered on the form.
 *
 * @param $event The "submit" event object.
 */
onSubmit($event: Event): boolean {
    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.
 */
onReset(): void {
    this.resetForm();
}

/**
 * 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 = 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});
}

/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 */
private _updateRegistrations() {
    this.form._registerOnCollectionChange(() => this._updateDomValue());
    if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
    this._oldForm = this.form;
}

/**
 * @description
 * Method called when the "reset" event is triggered on the 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!]);
}

/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 */
private _checkFormPresent() {
    if (!this.form) {
        ReactiveErrors.missingFormException();
    }
}

/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 */
private _updateForm() {
    this._updateDomValue();
    this._updateRegistrations();
    this._updateValidators();
    this._checkFormPresent();
}
```

---

`/**
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 *
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 */

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

import {FormArray} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators, composeValidators, controlPath} from '../shared';
import {AsyncValidatorFn, ValidatorFn} from '../validators';

import {FormGroupDirective} from './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's `FormGroup` instance you passed into `FormGroupDirective`.
 *
 * Use nested form groups to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.
 *
 * The following example uses the [Reactive Forms Guide](guide/reactive-forms) for more information.
 */

```
```
ReactiveFormsModule

```typescript
@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'.
   * 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[]
  ) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
    ReactiveErrors.groupParentException();
  }

  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();
    }
  }
}

function _hasInvalidParent(parent: ControlContainer): boolean {
  if (_hasInvalidParent(parent._parent) || parent._validators.length !== 0 || parent._asyncValidators.length !== 0) {
    ReactiveErrors.arrayParentException();
    return true;
  }
  return false;
}
```

```typescript
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: 'formGroup').
 *
 * It accepts
 * the string name of the nested 'FormArray' you want to link, and
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Example
 *
 * `{@example forms/ts/nestedFormArray/nested_form_array_example.ts region='Component'}`
 *
 */
@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'.
   * 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[]
  ) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
    ReactiveErrors.arrayParentException();
  }

  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();
    }
  }
}
```

```typescript
export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * 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[]
  ) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
    ReactiveErrors.groupParentException();
  }

  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.groupParentException();
    }
  }
}
```

```typescript
function _hasInvalidParent(parent: ControlContainer): boolean {
  if (_hasInvalidParent(parent._parent) || parent._validators.length !== 0 || parent._asyncValidators.length !== 0) {
    ReactiveErrors.groupParentException();
    return true;
  }
  return false;
}
```
boolean {\n  return !(parent instanceof FormGroupName) && ![parent instanceof FormArrayName]::\n  parent instanceof FormGroupDirective} && ![parent instanceof FormArrayName];\n}/**
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 * https://angular.io/license
 */

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

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath,
  isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control element by name.
 * @see [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 group
 * and set their value:
 *
 * ```html
 * <form [formGroup]="form">
 *   <input formControlName="first" [(ngModel)]="value">
 * </form>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * ### 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">
 *   <input [(ngModel)]="value">
 * </form>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:
 *
 * ```ts
 * imports:
 * [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})]
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `"always"`. This may help to track down where in the code the pattern is being used as the code is being updated.
 * ```ts
 * @ngModule ReactiveFormsModule
 * @publicApi
 * @directive(\{selector: [\['formControlName', providers: [\[\[controlNameBinding]]]]\} export class FormControlName extends NgControl implements OnChanges, OnDestroy {\n  private _added = false;\n  }/**
 * @description
 * Internal reference to
the view model.value.
@internal

* @internal

* @description

* Tracks the
`FormControl` instance bound to the directive.

* @internal

// TODO(issue/24571): remove !:

FormControl.

* @description

* Tracks the name of the `FormControl` 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 controls to be bound

* to indices when iterating over controls in a `FormArray`

// TODO(issue/24571): remove !:

@Input(`formControlName`) name !: string | number | null;

* @description

* Triggers a warning that this input should not be used with reactive forms.

* @Input(disabled)

* 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

* static _ngModelWarningSentOnce = false;

* @constructor

* @Optional() @Host() @SkipSelf() parent: ControlContainer;

* @Optional() @Self()

* @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,

* @Optional() @Self()

* @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,

* @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],

* @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig:

* string|null

* By super();

* this._parent = parent;

* this._rawValidators = validators || [];

* this._rawAsyncValidators = asyncValidators || [];

* this.valueAccessor = selectValueAccessor(this,

* valueAccessors);

* this.valueAccessor = selectValueAccessor(this,

* valueAccessors);

* this._rawValidators = validators || [];

* this._rawAsyncValidators = asyncValidators || [];

* this.valueAccessor = selectValueAccessor(this,

* valueAccessors);

* this.control = this.formDirective.addControl(this);

* if (this.control.disabled && this.valueAccessor !.setDisabledState)

* The top-level directive for this group if present, otherwise 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.

* get path():

* returns the controlPath(this.name == null ? this.name : this.name.toString(), this._parent!);
this.valueAccessor !.setDisabledState !(true);\n  }\n  \n  this._added = true;\n  }\n}*/

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

import {Directive, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef} from '@angular/core';
import {Observable} from 'rxjs';

import {AbstractControl} from '../model';
import {NG_VALIDATORS, Validators} from '../validators';

/**
 * @description
 * Defines the map of errors returned from failed validation checks.
 *
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes
 * that perform synchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a
 * validator directive with a custom error key.
 *
 * ```typescript
 * class CustomValidatorDirective implements Validator {
 *   validate(control: AbstractControl): ValidationErrors|null {
 *     return {'custom': true};
 *   }
 * }
 * ```
 *
 * @publicApi
 */
export interface Validator {
  /**
   * Tracks changes to the required attribute bound to this directive.
   */
  @Input()
  get required(): boolean|string { return this._required; }

  set required(value: boolean|string) {
    this._required = value != null && value !== false && `${value}` !== 'false';
    if (this._onChange) this._onChange();
  }

  /**
   * Method that validates whether the control is empty.
   * Returns the validation result if
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': 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
};

/**
 * @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.
 */
@Directive({
  selector:
    ':not([type=checkbox])[required][formControlName]!,:not([type=checkbox])[required][formControl]
    @description! * Providers: [{provide: NG_REQUIRED_VALIDATORS, useExisting: CheckboxRequiredValidatorDirective, multi: true}]
})
export class CheckboxRequiredValidator implements CheckboxRequiredValidatorDirective {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Method that performs synchronous validation against the provided control.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': true};
  }
}

/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: 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.
 */
@Directive({
  selector:
    ':not([type=checkbox])[required][formControlName]!,:not([type=checkbox])[required][formControl]
    @description! * Providers: [{provide: NG_REQUIRED_VALIDATORS, useExisting: CheckboxRequiredValidatorDirective, multi: true}]
})
export class CheckboxRequiredValidator implements CheckboxRequiredValidatorDirective {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Method that validates whether the control is empty.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': 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.
 */
@Directive({
  selector:
    ':not([type=checkbox])[required][formControlName]!,:not([type=checkbox])[required][formControl]
    @description! * Providers: [{provide: NG_REQUIRED_VALIDATORS, useExisting: CheckboxRequiredValidatorDirective, multi: true}]
})
export class CheckboxRequiredValidator implements CheckboxRequiredValidatorDirective {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Method that validates whether the control is empty.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': true};
  }
}
enabled, otherwise null.

```typescript
validate(control: AbstractControl): ValidationErrors|null {
  return this.required ? Validators.required(control) : null;
}
```

`*param fn` The callback function.

```javascript
registerOnValidatorChange(fn: () => void) {
  void { this._on_change = fn; }\n}
```

`*ngControl` * @description

`*ngModel` * @see [Form Validation](guide/form-validation)

```javascript
@ngModule
```

`*NG_VALIDATORS*` multi-provider list.

```javascript
ngModel
```

```javascript
@Directive
```

`*required*` A Directive that adds the <em>`required`</em> validator to checkbox controls marked with the <em>`required`</em> attribute. The directive is provided with the <em>`NG_VALIDATORS`</em> multi-provider list.

```javascript
 this.required ? Validators.requiredTrue(control) : null;
```

```javascript
return this.required ? Validators.required(control) : null;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
validate(control: AbstractControl): ValidationErrors|null {
  return this.required ? Validators.required(control) : null;
}
```

```javascript
console.log('Hello, world!');
```

```javascript
export const EMAIL_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => EmailValidator),
  multi: true
};
```

```javascript
emailValidator
```

```javascript
set diff(email) {
  this._email = email;
}
```

```javascript
@Input()
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
@Input()
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```

```javascript
set email(value: boolean|string) {
  this._enabled = value === '' || value === true || value === 'true';
if (this._onChange) this._onChange();
}
```

```javascript
private _enabled !: boolean;
```

```javascript
private _onChange !: () => void;
```
```typescript
/**
 * @description
 * 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.
 */
@Directive({
  selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}
})
export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the the maximum length bound to this directive.
   */
  @description
  * Method that validates whether the value exceeds
   * the maximum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength != null ? this._validator(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void {
    this._validator = Validators.maxLength(
        typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  }
}
```

```typescript
/**
 * @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 directive is provided with the `NG_VALIDATORS` multi-provider list.
 * 
 * @see [Form Validation](guide/form-validation)
 *
 * @usageNotes
 *
 * ### 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 ]*">n
```
ReactiveFormsModule

@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PatternValidator],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})

export class PatternValidator implements Validator {

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  @Input() pattern: string | RegExp;

  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control); }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}

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

import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgForm} from './directives/ng_form';
import {NgModel} from './directives/ng_model';
import {NgModelGroup} from './directives/ng_model_group';
import {NgNoValidate} from './directives/ng_no_validate_directive';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
import {FormControlDirective} from './directives/reactive_directives/form_control_directive';
import {FormControlName} from './directives/reactive_directives/form_control_name';
import {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
import {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
import {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NgNoValidate} from './directives/ng_no_validate_directive';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
export {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export const
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```typescript
// SHARED_FORM_DIRECTIVES: Type<any>[] = [
NgNoValidate,
NgSelectOption,
NgSelectMultipleOption,
DefaultValueAccessor,
NumberValueAccessor,
RangeValueAccessor,
CheckboxControlValueAccessor,
SelectControlValueAccessor,
SelectMultipleControlValueAccessor,
RadioControlValueAccesso
```

```typescript
import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';
```

```typescript
function isAbstractControlOptions(options: AbstractControlOptions | { [key: string]: any }): options is AbstractControlOptions {
  return (<AbstractControlOptions>options).asyncValidators !== undefined ||
    (<AbstractControlOptions>options).validators !== undefined ||
    (<AbstractControlOptions>options).updateOn !== undefined;
}
```

```typescript
/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param
   * controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   *
   * @param
   * options Configuration options 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
   * * `@param` options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   * * `@param` options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   * * `@param` options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   * * `@param` options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   * * `@param` options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   */
  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;
    let controlsConfig: { [key: string]: any } | options = options;

    let validators = options.validators !== null ? options.validators : null;
    let asyncValidators = options.asyncValidators !== null ? options.asyncValidators : null;

    for (let [key, value] of Object.entries(controlsConfig)) {
      validators = options.validators !== null ? options.validators : null;
      asyncValidators = options.asyncValidators !== null ? options.asyncValidators : null;
    }

    return new FormGroup(controls, {validators, asyncValidators, updateOn});
  }
```
disabled state.

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```

```typescript
* <code-example path="\"forms\ts\formsBuilder\form_builder_example.ts\" region="\"disabled-control\"\">
```
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*This module is used for handling user input, by defining and building a `FormGroup` that consists of `FormControl` objects, and mapping them onto the DOM. `FormControl` objects can then be used to read information from the form DOM elements. Forms providers are not included in default providers; you must import these providers explicitly.

```typescript
export {ɵInternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from './directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/default_value_accessor';
export {Form} from './directives/form_interface';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {ɵNgNoValidate} from './directives/ng_no_validate_directive';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {FormControlDirective} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName} from './directives/reactive_directives/form_group_name';
export {FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
export {AsyncValidator, AsyncValidatorFn, CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
export {FormBuilder} from './form_builder';
export {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup} from './model';
export {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from './validators';
export {VERSION} from './version';
```

```typescript
export * from './form_providers';
```

```typescript
/**
 * 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
 */

/**
 * Entry point for all public APIs of this package.
 */
export * from './src/forms';

// This file only reexports content of the `src` folder. Keep it that way.
// This file is not used to build this module. It is only used during editing by the TypeScript language service and during build for verification. `ngc` replaces this file with production index.ts when it rewrite private symbol names. This file only reexports content of the `src` folder. Keep it that way.
// This file is not used to build this module. It is only used during editing by the TypeScript language service and during build for verification. `ngc` replaces this file with production index.ts when it rewrite private symbol names. This file only reexports content of the `src` folder. Keep it that way.

export * from './public_api';

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';
```
'./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_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_m,RadioControlRegistry as
ɵangular_packages_forms_forms_o} from
'./src/directives/radio_control_value_accessor';
export {RADIO_VALUE_ACCESSOR as ɵangular_packages_forms_forms_l} from
'./src/directives/reactive_directives/form_model';
export {NgSelectMultipleOption as
ɵangular_packages_forms_forms_v} from
'./src/directives/validators';
export {CHECKBOX_REQUIRED_VALIDATOR as
ɵangular_packages_forms_forms_ba,BLUE_TOO_MANY_CLICKED,ResolveExtensions}\nexport {EMAIL_VALIDATOR as
ɵangular_packages_forms_forms_bb,MAX_LENGTH_VALIDATOR as
ɵangular_packages_forms_forms_c,MIN_LENGTH_VALIDATOR as
ɵangular_packages_forms_forms_d,PATTERN_VALIDATOR as
ɵangular_packages_forms_forms_e} from
'./src/directives/forms';
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/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 */

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*/

D;YAC3D,OAAO,IAAI,WAAW,CAAC,SAAS,EAEE,eAAe,EAEE,eAAc,CAAC,CAAC;SACpE;..........;QAGbD;2BAAK,GAAL,UACl;CAAcB,EAcrB,eAAuE,EAcVe,cAyD;YAH7D,iBAMC,YAFC,IAAM,QAAQ,GAAG,cAAc,CAAC,GAAG,CAAC,IAAI,OAAA,KAAI,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;YACjE,OOAO,IAAI,SAAS,CAAC,QAAQ,EAEE,eAAe,EAEE,eAAc,CAAC,CAAC;SACjE;;QAGD,qCA

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1.704 beanutils 1.9.3

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   c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to 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.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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Version 2, June 1991

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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.

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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 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.

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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.

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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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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.

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

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

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

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1.714 getopt-long 1.17

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1.716 lsb 10.2019051400

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1.717 hash.js 1.1.7

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```sh
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```

## Install

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

## Selective hash usage

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

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1.720 lodash 4.17.12

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1.722 crypto-browserify 3.12.0

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* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1.jar/org/springframework/security/web/server/authentication/RedirectServerAuthenticationEntryPoint.java
* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1.jar/org/springframework/security/web/server/serverRequestCache/ServerRequestCache.java
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* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1.jar/org/springframework/security/web/server/util/matcher/OrServerWebExchangeMatcher.java
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* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1.jar/org/springframework/security/web/server/authorization/DelegatingReactiveAuthorizationManager.java
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- /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1.jar/org/springframework/security/web/server/csrf/CsrfException.java
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- /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1.jar/org/springframework/security/web/server/authentication/ServerAuthenticationEntryPointFailureHandler.java
- /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1.jar/org/springframework/security/web/server/context/ReactorContextWebFilter.java
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* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1-jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
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* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1-jar/org/springframework/security/web/csrf/MissingCsrfTokenException.java
* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1-jar/org/springframework/security/web/context/CompositeSessionAuthenticationStrategy.java
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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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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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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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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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-----------------------------

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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

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

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

MortBay

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

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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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2000-05-05
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### 1.801 spring-boot-autoconfigure 2.2.4

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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/integration/IntegrationDataSourceInitializer.java
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jar/org/springframework/boot/autoconfigure/kafka/package-info.java
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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-configure/data/mongo/MongoReactiveRepositoriesAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-configure/http/GsonHttpMessageConvertersConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-configure/jms/JmsPoolConnectionFactoryFactory.java
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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-configure/web/reactive/function/client/ClientHttpConnectorConfiguration.java
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jar/org/springframework/boot/autoconfigure/mail/MailSenderValidatorAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/jersey/JerseyProperties.java
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jar/org/springframework/boot/autoconfigure/session/DefaultSessionFactoryBean.java
*/opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources.jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializationConfiguration.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/web/servlet/DefaultJerseyApplicationPath.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/autoconfigure/session/NonUniqueSessionRepositoryFailureAnalyzer.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/autoconfigure/kafka/KafkaAnnotationDrivenConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-jar/META-INF/maven/org.springframework.boot/spring-boot-autoconfigure/pom.xml

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## DOM Level 3 Core Specification v1.0

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5.9.0

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1.825 core-module 1.2.3

1.826 base-files 10.3+deb10u4

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to 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
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the Free Software Foundation; either version 1, or (at your option)
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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 software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or object code is made by offering
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How to Apply These Terms to Your New Programs

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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) <year> <name of author>

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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.

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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.

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

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

Preamble

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.

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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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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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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,
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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.

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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:

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1.831 spring-cloud-netflix-hystrix 2.2.0

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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
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 Program, 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 Program.

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

@item
You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

@enumerate a
@item
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; or,

@item
Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

@item
Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such an offer, in accord with Subsection b above.)
@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

```
@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
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.
You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301, USA.
@end smallexample
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:

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

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{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 is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999
@c This file is intended to be included within another document, hence no sectioning command or @node.
@display
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When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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.

@item
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:

@enumerate a
@item
The modified work must itself be a software library.

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

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

@item
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.)
@end enumerate

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
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.

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.

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.

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.

As an exception to the Sections above, you may also combine 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:

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.)

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

@item
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.

@item
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.

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

@end enumerate

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 materials to be 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.
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:

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- 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

END OF TERMS AND CONDITIONS
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright' line and a pointer to where the full notice is found.

@example
one line to give the library's name and an idea of what it does.
Copyright (C) year name of author

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

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1.842 batik-i18n 1.11

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1.843 ucf 3.0036

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1.846 spring-boot-configuration-processor

2.2.4

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1.848 spring-cloud-stream-binder-kafka-core

3.0.0

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1.849 neko-html 1.9.22

1.850 swagger-annotations 1.5.22

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*/

package io.swagger.annotations;

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 "";
}
1.851.1 Available under license:

    #!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
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
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) = $output =~ /copyright 1987.\*\bd\{4,\}\s/
    or die "Copyright statement not found in perl -v output '$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>.'
builtRequires:
  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:
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
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 */

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

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

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

typedef unsigned intnfds_t;

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H) && !defined_COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#endif

#include <sys/types.h>

#ifndef _poll_h_INCLUDED
#define _poll_h_INCLUDED

...
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRD NORM
#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

#endif _BSD_WAITPID_H
#define _BSD_WAITPID_H
#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_INT(w) & 0377))
#define WIFSTOPPED(w) ((_W_INT(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_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @version 3.0 (December 2000)
 *
* Optimised ANSI C code for the Rijndael cipher (now AES)
 *
* @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 gid_t);
#endif

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int setresuid(uid_t uid_t, uid_t uid_t);
#endif

1.854 zlib 1.2.8.dfsg 5
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
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